ANALYTICAL REPORT

Job Number: 410-95715-1

Job Description: fYNOP Monthly Surface Water

For:
Groundwater Sciences Corporation
2550 Interstate Drive
Suite 303
Harrisburg, PA 17110

Attention: Christopher O'Neil

Approved for release.
Marrissa C Williams
Project Manager
9/8/2022 10:34 AM

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09/08/2022

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Groundwater Sciences Corporation
Job ID: 410-95715-1
Project/Site: fYNOP Monthly Surface Water

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^c	CCV Recovery is outside acceptance limits.
cn	Refer to Case Narrative for further detail
FH	MS and/or MSD recovery above control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-95715-1

Receipt
The samples were received on 8/25/2022 3:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-291418 recovered above the upper control limit for Bromomethane, Chloroethane, Chloromethane and Vinyl chloride. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: HD-COD-SW-6-0/1-0 (410-95715-1).

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-291906 recovered outside acceptance criteria, low biased, for 1,1,1-Trichloroethane, 1,1-Dichloroethene, Carbon disulfide and Carbon tetrachloride. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The following analyte(s) recovered outside control limits for the LCS associated with 410-291906:1,1,1-Trichloroethane and 1,1-Dichloroethene . This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D_LL: The method blank for 410-291906 contained Acetone above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-95715-1

Client Sample ID: HD-COD-SW-6-0/1-0 — Lab Sample ID: 410-95715-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J cn	5.0	1.0	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-7-0/1-0 — Lab Sample ID: 410-95715-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.10	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-8-0/1-0 — Lab Sample ID: 410-95715-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.11	J ^c cn	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.33	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-9-0/1-0 — Lab Sample ID: 410-95715-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.3	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.098	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.084	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0 — Lab Sample ID: 410-95715-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.4	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.23	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.56		0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0 — Lab Sample ID: 410-95715-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.25	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.13	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.12	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.41	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.4		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.8		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	1.4		0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0 — Lab Sample ID: 410-95715-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.57		0.50	0.20	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-COD-SW-16-0/1-0 (Continued) — Lab Sample ID: 410-95715-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-17-0/1-0 — Lab Sample ID: 410-95715-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.2		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.4		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.44	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.36	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.3		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	6.1		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	78		5.0	2.0	ug/L	10		8260D	Total/NA

Client Sample ID: HD-COD-SW-26-0/1-0 — Lab Sample ID: 410-95715-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.10	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.73		0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.8		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-27-0/1-0 — Lab Sample ID: 410-95715-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J	5.0	1.0	ug/L	1		8260D	Total/NA
Carbon disulfide	0.11	J	1.0	0.10	ug/L	1		8260D	Total/NA
Chloromethane	0.12	J ^c cn	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Toluene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0 — Lab Sample ID: 410-95715-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.1	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.093	J	0.50	0.090	ug/L	1		8260D	Total/NA
Toluene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0 — Lab Sample ID: 410-95715-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.2	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.41	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0-1-1 — Lab Sample ID: 410-95715-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.0	^c *- cn	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.4		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.44	J ^c *- cn	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.34	J	0.50	0.090	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-QC1-0-1-1 (Continued)

Lab Sample ID: 410-95715-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.1		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	5.9		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	79		5.0	2.0	ug/L	10		8260D	Total/NA

Client Sample ID: HD-QC1-0-1-2

Lab Sample ID: 410-95715-14

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-COD-SW-6-0/1-0

Date Collected: 08/25/22 10:30
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-1

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	cn	0.50	0.070	ug/L			08/31/22 12:33	1
1,1,1-Trichloroethane	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
1,1,2,2-Tetrachloroethane	ND	cn	0.50	0.10	ug/L			08/31/22 12:33	1
1,1,2-Trichloroethane	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
1,1-Dichloroethane	ND	cn	0.50	0.10	ug/L			08/31/22 12:33	1
1,1-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/31/22 12:33	1
1,2-Dibromoethane (EDB)	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
1,2-Dichloroethane	ND	cn	0.50	0.070	ug/L			08/31/22 12:33	1
1,2-Dichloropropane	ND	cn	0.50	0.10	ug/L			08/31/22 12:33	1
2-Butanone (MEK)	ND	cn	5.0	1.0	ug/L			08/31/22 12:33	1
2-Hexanone	ND	cn	5.0	0.10	ug/L			08/31/22 12:33	1
4-Methyl-2-pentanone (MIBK)	ND	cn	5.0	1.0	ug/L			08/31/22 12:33	1
Acetone	**1.3**	**J cn**	5.0	1.0	ug/L			08/31/22 12:33	1
Benzene	ND	cn	0.50	0.10	ug/L			08/31/22 12:33	1
Bromochloromethane	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
Bromodichloromethane	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
Bromoform	ND	cn	1.0	0.30	ug/L			08/31/22 12:33	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 12:33	1
Carbon disulfide	ND	cn	1.0	0.10	ug/L			08/31/22 12:33	1
Carbon tetrachloride	ND	cn	0.50	0.10	ug/L			08/31/22 12:33	1
Chlorobenzene	ND	cn	0.50	0.070	ug/L			08/31/22 12:33	1
Chloroethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 12:33	1
Chloroform	ND	cn	0.50	0.090	ug/L			08/31/22 12:33	1
Chloromethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 12:33	1
cis-1,2-Dichloroethene	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
cis-1,3-Dichloropropene	ND	cn	0.50	0.10	ug/L			08/31/22 12:33	1
Dibromochloromethane	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
Ethylbenzene	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
Methyl tert-butyl ether	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
Methylene Chloride	ND	cn	0.50	0.10	ug/L			08/31/22 12:33	1
Styrene	ND	cn	0.50	0.070	ug/L			08/31/22 12:33	1
Tetrachloroethene	ND	cn	0.50	0.20	ug/L			08/31/22 12:33	1
Toluene	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
trans-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/31/22 12:33	1
trans-1,3-Dichloropropene	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
Trichloroethene	ND	cn	0.50	0.080	ug/L			08/31/22 12:33	1
Vinyl chloride	ND	^c cn	0.50	0.10	ug/L			08/31/22 12:33	1
Xylenes, Total	ND	cn	1.0	0.070	ug/L			08/31/22 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*	*cn*	*80 - 120*		*08/31/22 12:33*	*1*
4-Bromofluorobenzene (Surr)	*95*	*cn*	*80 - 120*		*08/31/22 12:33*	*1*
Dibromofluoromethane (Surr)	*111*	*cn*	*80 - 120*		*08/31/22 12:33*	*1*
Toluene-d8 (Surr)	*96*	*cn*	*80 - 120*		*08/31/22 12:33*	*1*

Client Sample ID: HD-COD-SW-7-0/1-0

Date Collected: 08/25/22 11:25
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-2

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 12:54	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 12:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 12:54	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 12:54	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/31/22 12:54	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 12:54	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 12:54	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 12:54	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 12:54	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 12:54	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 12:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 12:54	1
Acetone	**1.7**	**J**	5.0	1.0	ug/L			08/31/22 12:54	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 12:54	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 12:54	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 12:54	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 12:54	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 12:54	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/31/22 12:54	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 12:54	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 12:54	1
Chloroethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 12:54	1
Chloroform	**0.10**	**J**	0.50	0.090	ug/L			08/31/22 12:54	1
Chloromethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 12:54	1
cis-1,2-Dichloroethene	**0.15**	**J**	0.50	0.080	ug/L			08/31/22 12:54	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 12:54	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 12:54	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 12:54	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 12:54	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 12:54	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 12:54	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/31/22 12:54	1
Toluene	ND		0.50	0.080	ug/L			08/31/22 12:54	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 12:54	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 12:54	1
Trichloroethene	**0.16**	**J**	0.50	0.080	ug/L			08/31/22 12:54	1
Vinyl chloride	ND	^c cn	0.50	0.10	ug/L			08/31/22 12:54	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*08/31/22 12:54*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*08/31/22 12:54*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*08/31/22 12:54*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/31/22 12:54*	*1*

Client Sample ID: HD-COD-SW-8-0/1-0

Date Collected: 08/25/22 09:15
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-3

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 13:15	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 13:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 13:15	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 13:15	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/31/22 13:15	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 13:15	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 13:15	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 13:15	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 13:15	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 13:15	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 13:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 13:15	1
Acetone	**2.1**	**J**	5.0	1.0	ug/L			08/31/22 13:15	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 13:15	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 13:15	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 13:15	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 13:15	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:15	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/31/22 13:15	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 13:15	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 13:15	1
Chloroethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:15	1
Chloroform	ND		0.50	0.090	ug/L			08/31/22 13:15	1
Chloromethane	**0.11**	**J ^c cn**	0.50	0.10	ug/L			08/31/22 13:15	1
cis-1,2-Dichloroethene	**0.15**	**J**	0.50	0.080	ug/L			08/31/22 13:15	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 13:15	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 13:15	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 13:15	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 13:15	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 13:15	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 13:15	1
Tetrachloroethene	**0.33**	**J**	0.50	0.20	ug/L			08/31/22 13:15	1
Toluene	**0.16**	**J**	0.50	0.080	ug/L			08/31/22 13:15	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 13:15	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 13:15	1
Trichloroethene	**0.14**	**J**	0.50	0.080	ug/L			08/31/22 13:15	1
Vinyl chloride	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:15	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*08/31/22 13:15*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*08/31/22 13:15*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*08/31/22 13:15*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/31/22 13:15*	*1*

Client Sample ID: HD-COD-SW-9-0/1-0

Date Collected: 08/25/22 13:05
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-4

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 13:36	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 13:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 13:36	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 13:36	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/31/22 13:36	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 13:36	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 13:36	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 13:36	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 13:36	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 13:36	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 13:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 13:36	1
Acetone	**3.3**	**J**	5.0	1.0	ug/L			08/31/22 13:36	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 13:36	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 13:36	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 13:36	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 13:36	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:36	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/31/22 13:36	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 13:36	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 13:36	1
Chloroethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:36	1
Chloroform	**0.098**	**J**	0.50	0.090	ug/L			08/31/22 13:36	1
Chloromethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:36	1
cis-1,2-Dichloroethene	**0.084**	**J**	0.50	0.080	ug/L			08/31/22 13:36	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 13:36	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 13:36	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 13:36	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 13:36	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 13:36	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 13:36	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/31/22 13:36	1
Toluene	ND		0.50	0.080	ug/L			08/31/22 13:36	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 13:36	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 13:36	1
Trichloroethene	**0.10**	**J**	0.50	0.080	ug/L			08/31/22 13:36	1
Vinyl chloride	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:36	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*08/31/22 13:36*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*08/31/22 13:36*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*08/31/22 13:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/31/22 13:36*	*1*

Client Sample ID: HD-COD-SW-13-0/1-0

Date Collected: 08/25/22 09:35
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-5

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 13:57	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 13:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 13:57	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 13:57	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/31/22 13:57	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 13:57	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 13:57	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 13:57	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 13:57	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 13:57	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 13:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 13:57	1
Acetone	**2.4**	**J**	5.0	1.0	ug/L			08/31/22 13:57	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 13:57	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 13:57	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 13:57	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 13:57	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:57	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/31/22 13:57	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 13:57	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 13:57	1
Chloroethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:57	1
Chloroform	ND		0.50	0.090	ug/L			08/31/22 13:57	1
Chloromethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:57	1
cis-1,2-Dichloroethene	**0.23**	**J**	0.50	0.080	ug/L			08/31/22 13:57	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 13:57	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 13:57	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 13:57	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 13:57	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 13:57	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 13:57	1
Tetrachloroethene	**0.56**		0.50	0.20	ug/L			08/31/22 13:57	1
Toluene	**0.12**	**J**	0.50	0.080	ug/L			08/31/22 13:57	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 13:57	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 13:57	1
Trichloroethene	**0.17**	**J**	0.50	0.080	ug/L			08/31/22 13:57	1
Vinyl chloride	ND	^c cn	0.50	0.10	ug/L			08/31/22 13:57	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*08/31/22 13:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*08/31/22 13:57*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*08/31/22 13:57*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/31/22 13:57*	*1*

Client Sample ID: HD-COD-SW-15-0/1-0

Date Collected: 08/25/22 11:45
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-6

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 14:18	1
1,1,1-Trichloroethane	**0.25**	**J**	0.50	0.080	ug/L			08/31/22 14:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 14:18	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 14:18	1
1,1-Dichloroethane	**0.13**	**J**	0.50	0.10	ug/L			08/31/22 14:18	1
1,1-Dichloroethene	**0.12**	**J**	0.50	0.10	ug/L			08/31/22 14:18	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 14:18	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 14:18	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 14:18	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 14:18	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 14:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 14:18	1
Acetone	ND		5.0	1.0	ug/L			08/31/22 14:18	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 14:18	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 14:18	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 14:18	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 14:18	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 14:18	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/31/22 14:18	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 14:18	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 14:18	1
Chloroethane	ND	^c FH cn	0.50	0.10	ug/L			08/31/22 14:18	1
Chloroform	**0.41**	**J**	0.50	0.090	ug/L			08/31/22 14:18	1
Chloromethane	ND	^c FH cn	0.50	0.10	ug/L			08/31/22 14:18	1
cis-1,2-Dichloroethene	**1.4**		0.50	0.080	ug/L			08/31/22 14:18	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 14:18	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 14:18	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 14:18	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 14:18	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 14:18	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 14:18	1
Tetrachloroethene	**4.8**		0.50	0.20	ug/L			08/31/22 14:18	1
Toluene	ND		0.50	0.080	ug/L			08/31/22 14:18	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 14:18	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 14:18	1
Trichloroethene	**1.4**		0.50	0.080	ug/L			08/31/22 14:18	1
Vinyl chloride	ND	^c FH cn	0.50	0.10	ug/L			08/31/22 14:18	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*08/31/22 14:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*08/31/22 14:18*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*08/31/22 14:18*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/31/22 14:18*	*1*

Client Sample ID: HD-COD-SW-16-0/1-0

Date Collected: 08/25/22 10:00
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-7

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 15:22	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 15:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 15:22	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 15:22	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/31/22 15:22	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 15:22	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 15:22	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 15:22	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 15:22	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 15:22	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 15:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 15:22	1
Acetone	**1.6**	**J**	5.0	1.0	ug/L			08/31/22 15:22	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 15:22	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 15:22	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 15:22	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 15:22	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 15:22	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/31/22 15:22	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 15:22	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 15:22	1
Chloroethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 15:22	1
Chloroform	ND		0.50	0.090	ug/L			08/31/22 15:22	1
Chloromethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 15:22	1
cis-1,2-Dichloroethene	**0.17**	**J**	0.50	0.080	ug/L			08/31/22 15:22	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 15:22	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 15:22	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 15:22	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 15:22	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 15:22	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 15:22	1
Tetrachloroethene	**0.57**		0.50	0.20	ug/L			08/31/22 15:22	1
Toluene	**0.11**	**J**	0.50	0.080	ug/L			08/31/22 15:22	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 15:22	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 15:22	1
Trichloroethene	**0.17**	**J**	0.50	0.080	ug/L			08/31/22 15:22	1
Vinyl chloride	ND	^c cn	0.50	0.10	ug/L			08/31/22 15:22	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*08/31/22 15:22*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*08/31/22 15:22*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*08/31/22 15:22*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/31/22 15:22*	*1*

Client Sample ID: HD-COD-SW-17-0/1-0

Date Collected: 08/25/22 10:10
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-8

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 15:43	1
1,1,1-Trichloroethane	**6.2**		0.50	0.080	ug/L			08/31/22 15:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 15:43	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 15:43	1
1,1-Dichloroethane	**1.4**		0.50	0.10	ug/L			08/31/22 15:43	1
1,1-Dichloroethene	**0.44**	**J**	0.50	0.10	ug/L			08/31/22 15:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 15:43	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 15:43	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 15:43	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 15:43	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 15:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 15:43	1
Acetone	ND		5.0	1.0	ug/L			08/31/22 15:43	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 15:43	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 15:43	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 15:43	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 15:43	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 15:43	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/31/22 15:43	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 15:43	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 15:43	1
Chloroethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 15:43	1
Chloroform	**0.36**	**J**	0.50	0.090	ug/L			08/31/22 15:43	1
Chloromethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 15:43	1
cis-1,2-Dichloroethene	**4.3**		0.50	0.080	ug/L			08/31/22 15:43	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 15:43	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 15:43	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 15:43	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 15:43	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 15:43	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 15:43	1
Toluene	ND		0.50	0.080	ug/L			08/31/22 15:43	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 15:43	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 15:43	1
Trichloroethene	**6.1**		0.50	0.080	ug/L			08/31/22 15:43	1
Vinyl chloride	ND	^c cn	0.50	0.10	ug/L			08/31/22 15:43	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*08/31/22 15:43*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*08/31/22 15:43*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*08/31/22 15:43*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/31/22 15:43*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**78**		5.0	2.0	ug/L			09/05/22 18:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/05/22 18:43*	*10*

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-95715-8

Date Collected: 08/25/22 10:10
Matrix: Water
Date Received: 08/25/22 15:48

Method: 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/05/22 18:43*	*10*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/05/22 18:43*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/05/22 18:43*	*10*

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-95715-9

Date Collected: 08/25/22 11:05
Matrix: Water
Date Received: 08/25/22 15:48

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 16:04	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 16:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 16:04	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 16:04	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/31/22 16:04	1
1,1-Dichloroethene	**0.10**	**J**	0.50	0.10	ug/L			08/31/22 16:04	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 16:04	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 16:04	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 16:04	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 16:04	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 16:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 16:04	1
Acetone	ND		5.0	1.0	ug/L			08/31/22 16:04	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 16:04	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 16:04	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 16:04	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 16:04	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 16:04	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/31/22 16:04	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 16:04	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 16:04	1
Chloroethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 16:04	1
Chloroform	**0.73**		0.50	0.090	ug/L			08/31/22 16:04	1
Chloromethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 16:04	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/31/22 16:04	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 16:04	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 16:04	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 16:04	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 16:04	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 16:04	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 16:04	1
Tetrachloroethene	**3.8**		0.50	0.20	ug/L			08/31/22 16:04	1
Toluene	ND		0.50	0.080	ug/L			08/31/22 16:04	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 16:04	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 16:04	1
Trichloroethene	**0.18**	**J**	0.50	0.080	ug/L			08/31/22 16:04	1
Vinyl chloride	ND	^c cn	0.50	0.10	ug/L			08/31/22 16:04	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 16:04	1

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-95715-9

Date Collected: 08/25/22 11:05
Matrix: Water
Date Received: 08/25/22 15:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		08/31/22 16:04	1
4-Bromofluorobenzene (Surr)	94		80 - 120		08/31/22 16:04	1
Dibromofluoromethane (Surr)	111		80 - 120		08/31/22 16:04	1
Toluene-d8 (Surr)	95		80 - 120		08/31/22 16:04	1

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-95715-10

Date Collected: 08/25/22 11:35
Matrix: Water
Date Received: 08/25/22 15:48

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 16:26	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 16:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 16:26	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 16:26	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/31/22 16:26	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 16:26	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 16:26	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 16:26	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 16:26	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 16:26	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 16:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 16:26	1
Acetone	**2.3**	**J**	5.0	1.0	ug/L			08/31/22 16:26	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 16:26	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 16:26	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 16:26	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 16:26	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 16:26	1
Carbon disulfide	**0.11**	**J**	1.0	0.10	ug/L			08/31/22 16:26	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 16:26	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 16:26	1
Chloroethane	ND	^c cn	0.50	0.10	ug/L			08/31/22 16:26	1
Chloroform	ND		0.50	0.090	ug/L			08/31/22 16:26	1
Chloromethane	**0.12**	**J ^c cn**	0.50	0.10	ug/L			08/31/22 16:26	1
cis-1,2-Dichloroethene	**0.14**	**J**	0.50	0.080	ug/L			08/31/22 16:26	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 16:26	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 16:26	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 16:26	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 16:26	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 16:26	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 16:26	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/31/22 16:26	1
Toluene	**0.10**	**J**	0.50	0.080	ug/L			08/31/22 16:26	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 16:26	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 16:26	1
Trichloroethene	**0.13**	**J**	0.50	0.080	ug/L			08/31/22 16:26	1
Vinyl chloride	ND	^c cn	0.50	0.10	ug/L			08/31/22 16:26	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 16:26	1

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-95715-10

Date Collected: 08/25/22 11:35
Matrix: Water
Date Received: 08/25/22 15:48

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*08/31/22 16:26*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/31/22 16:26*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*08/31/22 16:26*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/31/22 16:26*	*1*

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-95715-11

Date Collected: 08/25/22 13:15
Matrix: Water
Date Received: 08/25/22 15:48

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/01/22 14:44	1
1,1,1-Trichloroethane	ND	^c *- cn	0.50	0.080	ug/L			09/01/22 14:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/01/22 14:44	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/01/22 14:44	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/01/22 14:44	1
1,1-Dichloroethene	ND	^c *- cn	0.50	0.10	ug/L			09/01/22 14:44	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/01/22 14:44	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/01/22 14:44	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/01/22 14:44	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/01/22 14:44	1
2-Hexanone	ND		5.0	0.10	ug/L			09/01/22 14:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/01/22 14:44	1
Acetone	**3.1**	**J cn**	5.0	1.0	ug/L			09/01/22 14:44	1
Benzene	ND		0.50	0.10	ug/L			09/01/22 14:44	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/01/22 14:44	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/01/22 14:44	1
Bromoform	ND		1.0	0.30	ug/L			09/01/22 14:44	1
Bromomethane	ND		0.50	0.10	ug/L			09/01/22 14:44	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			09/01/22 14:44	1
Carbon tetrachloride	ND	^c cn	0.50	0.10	ug/L			09/01/22 14:44	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/01/22 14:44	1
Chloroethane	ND		0.50	0.10	ug/L			09/01/22 14:44	1
Chloroform	**0.093**	**J**	0.50	0.090	ug/L			09/01/22 14:44	1
Chloromethane	ND		0.50	0.10	ug/L			09/01/22 14:44	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/01/22 14:44	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/01/22 14:44	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/01/22 14:44	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/01/22 14:44	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/01/22 14:44	1
Methylene Chloride	ND		0.50	0.10	ug/L			09/01/22 14:44	1
Styrene	ND		0.50	0.070	ug/L			09/01/22 14:44	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/01/22 14:44	1
Toluene	**0.11**	**J**	0.50	0.080	ug/L			09/01/22 14:44	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/01/22 14:44	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/01/22 14:44	1
Trichloroethene	ND		0.50	0.080	ug/L			09/01/22 14:44	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/01/22 14:44	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/01/22 14:44	1

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-95715-11

Date Collected: 08/25/22 13:15
Matrix: Water
Date Received: 08/25/22 15:48

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/01/22 14:44*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/01/22 14:44*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/01/22 14:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/01/22 14:44*	*1*

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-95715-12

Date Collected: 08/25/22 09:00
Matrix: Water
Date Received: 08/25/22 15:48

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/01/22 15:05	1
1,1,1-Trichloroethane	ND	^c *- cn	0.50	0.080	ug/L			09/01/22 15:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/01/22 15:05	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/01/22 15:05	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/01/22 15:05	1
1,1-Dichloroethene	ND	^c *- cn	0.50	0.10	ug/L			09/01/22 15:05	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/01/22 15:05	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/01/22 15:05	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/01/22 15:05	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/01/22 15:05	1
2-Hexanone	ND		5.0	0.10	ug/L			09/01/22 15:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/01/22 15:05	1
Acetone	**2.2**	**J cn**	5.0	1.0	ug/L			09/01/22 15:05	1
Benzene	ND		0.50	0.10	ug/L			09/01/22 15:05	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/01/22 15:05	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/01/22 15:05	1
Bromoform	ND		1.0	0.30	ug/L			09/01/22 15:05	1
Bromomethane	ND		0.50	0.10	ug/L			09/01/22 15:05	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			09/01/22 15:05	1
Carbon tetrachloride	ND	^c cn	0.50	0.10	ug/L			09/01/22 15:05	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/01/22 15:05	1
Chloroethane	ND		0.50	0.10	ug/L			09/01/22 15:05	1
Chloroform	ND		0.50	0.090	ug/L			09/01/22 15:05	1
Chloromethane	ND		0.50	0.10	ug/L			09/01/22 15:05	1
cis-1,2-Dichloroethene	**0.14**	**J**	0.50	0.080	ug/L			09/01/22 15:05	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/01/22 15:05	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/01/22 15:05	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/01/22 15:05	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/01/22 15:05	1
Methylene Chloride	ND		0.50	0.10	ug/L			09/01/22 15:05	1
Styrene	ND		0.50	0.070	ug/L			09/01/22 15:05	1
Tetrachloroethene	**0.41**	**J**	0.50	0.20	ug/L			09/01/22 15:05	1
Toluene	ND		0.50	0.080	ug/L			09/01/22 15:05	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/01/22 15:05	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/01/22 15:05	1
Trichloroethene	**0.15**	**J**	0.50	0.080	ug/L			09/01/22 15:05	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/01/22 15:05	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/01/22 15:05	1

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-95715-12

Date Collected: 08/25/22 09:00
Matrix: Water
Date Received: 08/25/22 15:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/01/22 15:05*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*09/01/22 15:05*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*09/01/22 15:05*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/01/22 15:05*	*1*

Client Sample ID: HD-QC1-0-1-1

Lab Sample ID: 410-95715-13

Date Collected: 08/25/22 10:20
Matrix: Water
Date Received: 08/25/22 15:48

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/01/22 15:26	1
1,1,1-Trichloroethane	**6.0**	**^c *- cn**	0.50	0.080	ug/L			09/01/22 15:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/01/22 15:26	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/01/22 15:26	1
1,1-Dichloroethane	**1.4**		0.50	0.10	ug/L			09/01/22 15:26	1
1,1-Dichloroethene	**0.44**	**J ^c *- cn**	0.50	0.10	ug/L			09/01/22 15:26	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/01/22 15:26	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/01/22 15:26	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/01/22 15:26	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/01/22 15:26	1
2-Hexanone	ND		5.0	0.10	ug/L			09/01/22 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/01/22 15:26	1
Acetone	ND		5.0	1.0	ug/L			09/01/22 15:26	1
Benzene	ND		0.50	0.10	ug/L			09/01/22 15:26	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/01/22 15:26	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/01/22 15:26	1
Bromoform	ND		1.0	0.30	ug/L			09/01/22 15:26	1
Bromomethane	ND		0.50	0.10	ug/L			09/01/22 15:26	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			09/01/22 15:26	1
Carbon tetrachloride	ND	^c cn	0.50	0.10	ug/L			09/01/22 15:26	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/01/22 15:26	1
Chloroethane	ND		0.50	0.10	ug/L			09/01/22 15:26	1
Chloroform	**0.34**	**J**	0.50	0.090	ug/L			09/01/22 15:26	1
Chloromethane	ND		0.50	0.10	ug/L			09/01/22 15:26	1
cis-1,2-Dichloroethene	**4.1**		0.50	0.080	ug/L			09/01/22 15:26	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/01/22 15:26	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/01/22 15:26	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/01/22 15:26	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/01/22 15:26	1
Methylene Chloride	ND		0.50	0.10	ug/L			09/01/22 15:26	1
Styrene	ND		0.50	0.070	ug/L			09/01/22 15:26	1
Toluene	ND		0.50	0.080	ug/L			09/01/22 15:26	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/01/22 15:26	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/01/22 15:26	1
Trichloroethene	**5.9**		0.50	0.080	ug/L			09/01/22 15:26	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/01/22 15:26	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/01/22 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*09/01/22 15:26*	*1*

Client Sample ID: HD-QC1-0-1-1

Date Collected: 08/25/22 10:20
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-13

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*09/01/22 15:26*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*09/01/22 15:26*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/01/22 15:26*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**79**		5.0	2.0	ug/L			09/05/22 21:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/05/22 21:19*	*10*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/05/22 21:19*	*10*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/05/22 21:19*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/05/22 21:19*	*10*

Client Sample ID: HD-QC1-0-1-2

Date Collected: 08/25/22 00:00
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-14

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/01/22 14:22	1
1,1,1-Trichloroethane	ND	^c *- cn	0.50	0.080	ug/L			09/01/22 14:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/01/22 14:22	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/01/22 14:22	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/01/22 14:22	1
1,1-Dichloroethene	ND	^c *- cn	0.50	0.10	ug/L			09/01/22 14:22	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/01/22 14:22	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/01/22 14:22	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/01/22 14:22	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/01/22 14:22	1
2-Hexanone	ND		5.0	0.10	ug/L			09/01/22 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/01/22 14:22	1
Acetone	ND		5.0	1.0	ug/L			09/01/22 14:22	1
Benzene	ND		0.50	0.10	ug/L			09/01/22 14:22	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/01/22 14:22	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/01/22 14:22	1
Bromoform	ND		1.0	0.30	ug/L			09/01/22 14:22	1
Bromomethane	ND		0.50	0.10	ug/L			09/01/22 14:22	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			09/01/22 14:22	1
Carbon tetrachloride	ND	^c cn	0.50	0.10	ug/L			09/01/22 14:22	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/01/22 14:22	1
Chloroethane	ND		0.50	0.10	ug/L			09/01/22 14:22	1
Chloroform	ND		0.50	0.090	ug/L			09/01/22 14:22	1
Chloromethane	ND		0.50	0.10	ug/L			09/01/22 14:22	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/01/22 14:22	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/01/22 14:22	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/01/22 14:22	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/01/22 14:22	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/01/22 14:22	1
Methylene Chloride	ND		0.50	0.10	ug/L			09/01/22 14:22	1

Client Sample ID: HD-QC1-0-1-2
Date Collected: 08/25/22 00:00
Date Received: 08/25/22 15:48

Lab Sample ID: 410-95715-14
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.070	ug/L			09/01/22 14:22	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/01/22 14:22	1
Toluene	ND		0.50	0.080	ug/L			09/01/22 14:22	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/01/22 14:22	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/01/22 14:22	1
Trichloroethene	ND		0.50	0.080	ug/L			09/01/22 14:22	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/01/22 14:22	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/01/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/01/22 14:22*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*09/01/22 14:22*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/01/22 14:22*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/01/22 14:22*	*1*

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-95715-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	0.50	0.070	ug/L
1,1,1-Trichloroethane	0.50	0.080	ug/L
1,1,2,2-Tetrachloroethane	0.50	0.10	ug/L
1,1,2-Trichloroethane	0.50	0.080	ug/L
1,1-Dichloroethane	0.50	0.10	ug/L
1,1-Dichloroethene	0.50	0.10	ug/L
1,2-Dibromoethane (EDB)	0.50	0.080	ug/L
1,2-Dichloroethane	0.50	0.070	ug/L
1,2-Dichloropropane	0.50	0.10	ug/L
2-Butanone (MEK)	5.0	1.0	ug/L
2-Hexanone	5.0	0.10	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	1.0	ug/L
Acetone	5.0	1.0	ug/L
Benzene	0.50	0.10	ug/L
Bromochloromethane	0.50	0.080	ug/L
Bromodichloromethane	0.50	0.080	ug/L
Bromoform	1.0	0.30	ug/L
Bromomethane	0.50	0.10	ug/L
Carbon disulfide	1.0	0.10	ug/L
Carbon tetrachloride	0.50	0.10	ug/L
Chlorobenzene	0.50	0.070	ug/L
Chloroethane	0.50	0.10	ug/L
Chloroform	0.50	0.090	ug/L
Chloromethane	0.50	0.10	ug/L
cis-1,2-Dichloroethene	0.50	0.080	ug/L
cis-1,3-Dichloropropene	0.50	0.10	ug/L
Dibromochloromethane	0.50	0.080	ug/L
Ethylbenzene	0.50	0.080	ug/L
Methyl tert-butyl ether	0.50	0.080	ug/L
Methylene Chloride	0.50	0.10	ug/L
Styrene	0.50	0.070	ug/L
Tetrachloroethene	0.50	0.20	ug/L
Toluene	0.50	0.080	ug/L
trans-1,2-Dichloroethene	0.50	0.10	ug/L
trans-1,3-Dichloropropene	0.50	0.080	ug/L
Trichloroethene	0.50	0.080	ug/L
Vinyl chloride	0.50	0.10	ug/L
Xylenes, Total	1.0	0.070	ug/L

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-95715-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-95715-1	HD-COD-SW-6-0/1-0	106 cn	95 cn	111 cn	96 cn
410-95715-2	HD-COD-SW-7-0/1-0	105	94	111	97
410-95715-3	HD-COD-SW-8-0/1-0	108	92	111	94
410-95715-4	HD-COD-SW-9-0/1-0	107	93	110	98
410-95715-5	HD-COD-SW-13-0/1-0	104	94	111	97
410-95715-6	HD-COD-SW-15-0/1-0	106	96	111	94
410-95715-6 MS	HD-COD-SW-15-0/1-0	98	99	103	96
410-95715-6 MSD	HD-COD-SW-15-0/1-0	98	104	104	98
410-95715-7	HD-COD-SW-16-0/1-0	103	96	109	97
410-95715-8	HD-COD-SW-17-0/1-0	105	91	111	93
410-95715-8 - DL	HD-COD-SW-17-0/1-0	102	98	100	99
410-95715-9	HD-COD-SW-26-0/1-0	106	94	111	95
410-95715-10	HD-COD-SW-27-0/1-0	105	95	110	96
410-95715-11	HD-COD-SW-28-0/1-0	106	97	104	98
410-95715-12	HD-COD-SW-29-0/1-0	106	89	99	101
410-95715-13	HD-QC1-0-1-1	111	91	112	95
410-95715-13 - DL	HD-QC1-0-1-1	102	98	102	100
410-95715-14	HD-QC1-0-1-2	106	89	106	104
LCS 410-291418/4	Lab Control Sample	98	102	103	99
LCS 410-291906/5	Lab Control Sample	101	102	99	110
LCS 410-292752/5	Lab Control Sample	103	99	102	100
LCS 410-292755/4	Lab Control Sample	100	101	101	100
LCSD 410-292752/6	Lab Control Sample Dup	103	99	103	100
LCSD 410-292755/5	Lab Control Sample Dup	102	100	102	100
MB 410-291418/6	Method Blank	106	93	109	97
MB 410-291906/7	Method Blank	105	92	106	101
MB 410-292752/10	Method Blank	104	97	102	99
MB 410-292755/7	Method Blank	103	98	101	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-291418/6
Matrix: Water
Analysis Batch: 291418

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/31/22 11:08	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 11:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/31/22 11:08	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/31/22 11:08	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/31/22 11:08	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 11:08	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/31/22 11:08	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/31/22 11:08	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/31/22 11:08	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/31/22 11:08	1
2-Hexanone	ND		5.0	0.10	ug/L			08/31/22 11:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/31/22 11:08	1
Acetone	ND		5.0	1.0	ug/L			08/31/22 11:08	1
Benzene	ND		0.50	0.10	ug/L			08/31/22 11:08	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/31/22 11:08	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/31/22 11:08	1
Bromoform	ND		1.0	0.30	ug/L			08/31/22 11:08	1
Bromomethane	ND		0.50	0.10	ug/L			08/31/22 11:08	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/31/22 11:08	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/31/22 11:08	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/31/22 11:08	1
Chloroethane	ND		0.50	0.10	ug/L			08/31/22 11:08	1
Chloroform	ND		0.50	0.090	ug/L			08/31/22 11:08	1
Chloromethane	ND		0.50	0.10	ug/L			08/31/22 11:08	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/31/22 11:08	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/31/22 11:08	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/31/22 11:08	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/31/22 11:08	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/31/22 11:08	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/31/22 11:08	1
Styrene	ND		0.50	0.070	ug/L			08/31/22 11:08	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/31/22 11:08	1
Toluene	ND		0.50	0.080	ug/L			08/31/22 11:08	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/31/22 11:08	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/31/22 11:08	1
Trichloroethene	ND		0.50	0.080	ug/L			08/31/22 11:08	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/31/22 11:08	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/31/22 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*08/31/22 11:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*08/31/22 11:08*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*08/31/22 11:08*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/31/22 11:08*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-291418/4
Matrix: Water
Analysis Batch: 291418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	5.26		ug/L		105	71 - 134
1,1,1-Trichloroethane	5.00	4.40		ug/L		88	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.21		ug/L		104	75 - 123
1,1,2-Trichloroethane	5.00	5.33		ug/L		107	80 - 120
1,1-Dichloroethane	5.00	5.60		ug/L		112	74 - 120
1,1-Dichloroethene	5.00	4.34		ug/L		87	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.34		ug/L		107	80 - 120
1,2-Dichloroethane	5.00	5.53		ug/L		111	69 - 122
1,2-Dichloropropane	5.00	5.71		ug/L		114	80 - 120
2-Butanone (MEK)	62.5	62.7		ug/L		100	59 - 141
2-Hexanone	62.5	63.5		ug/L		102	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	67.8		ug/L		109	55 - 140
Acetone	62.5	55.7		ug/L		89	60 - 146
Benzene	5.00	5.62		ug/L		112	80 - 120
Bromochloromethane	5.00	5.62		ug/L		112	80 - 120
Bromodichloromethane	5.00	5.67		ug/L		113	73 - 124
Bromoform	5.00	5.12		ug/L		102	49 - 144
Bromomethane	5.00	5.63		ug/L		113	60 - 136
Carbon disulfide	5.00	5.09		ug/L		102	67 - 130
Carbon tetrachloride	5.00	4.72		ug/L		94	64 - 141
Chlorobenzene	5.00	5.12		ug/L		102	80 - 120
Chloroethane	5.00	5.85		ug/L		117	63 - 120
Chloroform	5.00	5.58		ug/L		112	80 - 120
Chloromethane	5.00	5.54		ug/L		111	56 - 124
cis-1,2-Dichloroethene	5.00	5.67		ug/L		113	80 - 122
cis-1,3-Dichloropropene	5.00	5.38		ug/L		108	67 - 121
Dibromochloromethane	5.00	5.25		ug/L		105	64 - 138
Ethylbenzene	5.00	5.25		ug/L		105	80 - 120
Methyl tert-butyl ether	5.00	5.60		ug/L		112	69 - 120
Methylene Chloride	5.00	5.44		ug/L		109	80 - 120
Styrene	5.00	5.42		ug/L		108	80 - 120
Tetrachloroethene	5.00	4.87		ug/L		97	80 - 120
Toluene	5.00	5.13		ug/L		103	80 - 120
trans-1,2-Dichloroethene	5.00	5.11		ug/L		102	80 - 122
trans-1,3-Dichloropropene	5.00	5.47		ug/L		109	61 - 129
Trichloroethene	5.00	5.36		ug/L		107	80 - 120
Vinyl chloride	5.00	5.49		ug/L		110	60 - 125
Xylenes, Total	15.0	15.8		ug/L		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-95715-6 MS
Matrix: Water
Analysis Batch: 291418

Client Sample ID: HD-COD-SW-15-0/1-0
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		5.00	5.29		ug/L		106	71 - 134
1,1,1-Trichloroethane	0.25	J	5.00	4.73		ug/L		90	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.03		ug/L		101	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.11		ug/L		102	80 - 120
1,1-Dichloroethane	0.13	J	5.00	5.70		ug/L		111	74 - 120
1,1-Dichloroethene	0.12	J	5.00	4.54		ug/L		88	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.13		ug/L		103	80 - 120
1,2-Dichloroethane	ND		5.00	5.48		ug/L		110	69 - 122
1,2-Dichloropropane	ND		5.00	5.70		ug/L		114	80 - 120
2-Butanone (MEK)	ND		62.6	58.1		ug/L		93	59 - 141
2-Hexanone	ND		62.6	58.9		ug/L		94	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	61.3		ug/L		98	55 - 140
Acetone	ND		62.6	55.3		ug/L		88	60 - 146
Benzene	ND		5.00	5.69		ug/L		114	80 - 120
Bromochloromethane	ND		5.00	5.56		ug/L		111	80 - 120
Bromodichloromethane	ND		5.00	5.69		ug/L		114	73 - 124
Bromoform	ND		5.00	4.72		ug/L		94	49 - 144
Bromomethane	ND	^c cn	5.00	6.33		ug/L		126	60 - 136
Carbon disulfide	ND		5.00	5.02		ug/L		100	67 - 130
Carbon tetrachloride	ND		5.00	4.75		ug/L		95	64 - 141
Chlorobenzene	ND		5.00	5.19		ug/L		104	80 - 120
Chloroethane	ND	^c FH cn	5.00	6.37	FH	ug/L		127	63 - 120
Chloroform	0.41	J	5.00	6.00		ug/L		112	80 - 120
Chloromethane	ND	^c FH cn	5.00	6.00		ug/L		120	80 - 120
cis-1,2-Dichloroethene	1.4		5.00	7.02		ug/L		112	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.14		ug/L		103	67 - 121
Dibromochloromethane	ND		5.00	4.95		ug/L		99	64 - 138
Ethylbenzene	ND		5.00	5.40		ug/L		108	80 - 120
Methyl tert-butyl ether	ND		5.00	5.32		ug/L		106	69 - 120
Methylene Chloride	ND		5.00	5.61		ug/L		112	80 - 120
Styrene	ND		5.00	5.57		ug/L		111	80 - 120
Tetrachloroethene	4.8		5.00	9.40		ug/L		93	80 - 120
Toluene	ND		5.00	5.09		ug/L		102	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.09		ug/L		102	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.16		ug/L		103	61 - 129
Trichloroethene	1.4		5.00	6.81		ug/L		109	80 - 120
Vinyl chloride	ND	^c FH cn	5.00	6.18		ug/L		123	60 - 125
Xylenes, Total	ND		15.0	16.2		ug/L		108	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-95715-6 MSD
Matrix: Water
Analysis Batch: 291418

Client Sample ID: HD-COD-SW-15-0/1-0
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		5.00	5.34		ug/L		107	71 - 134	1	30
1,1,1-Trichloroethane	0.25	J	5.00	4.70		ug/L		89	78 - 126	1	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.52		ug/L		110	75 - 123	9	30
1,1,2-Trichloroethane	ND		5.00	5.26		ug/L		105	80 - 120	3	30
1,1-Dichloroethane	0.13	J	5.00	5.80		ug/L		113	74 - 120	2	30
1,1-Dichloroethene	0.12	J	5.00	4.66		ug/L		91	80 - 131	2	30
1,2-Dibromoethane (EDB)	ND		5.00	5.28		ug/L		106	80 - 120	3	30
1,2-Dichloroethane	ND		5.00	5.72		ug/L		114	69 - 122	4	30
1,2-Dichloropropane	ND		5.00	5.79		ug/L		116	80 - 120	2	30
2-Butanone (MEK)	ND		62.6	62.4		ug/L		100	59 - 141	7	30
2-Hexanone	ND		62.6	64.1		ug/L		102	52 - 140	8	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	66.0		ug/L		106	55 - 140	7	30
Acetone	ND		62.6	56.9		ug/L		91	60 - 146	3	30
Benzene	ND		5.00	5.76		ug/L		115	80 - 120	1	30
Bromochloromethane	ND		5.00	5.70		ug/L		114	80 - 120	3	30
Bromodichloromethane	ND		5.00	5.64		ug/L		113	73 - 124	1	30
Bromoform	ND		5.00	4.90		ug/L		98	49 - 144	4	30
Bromomethane	ND	^c cn	5.00	6.12		ug/L		122	60 - 136	3	30
Carbon disulfide	ND		5.00	5.06		ug/L		101	67 - 130	1	30
Carbon tetrachloride	ND		5.00	4.80		ug/L		96	64 - 141	1	30
Chlorobenzene	ND		5.00	5.23		ug/L		104	80 - 120	1	30
Chloroethane	ND	^c FH cn	5.00	5.86		ug/L		117	63 - 120	8	30
Chloroform	0.41	J	5.00	6.09		ug/L		113	80 - 120	1	30
Chloromethane	ND	^c FH cn	5.00	6.16	FH	ug/L		123	80 - 120	3	30
cis-1,2-Dichloroethene	1.4		5.00	7.04		ug/L		113	80 - 122	0	30
cis-1,3-Dichloropropene	ND		5.00	5.20		ug/L		104	67 - 121	1	30
Dibromochloromethane	ND		5.00	5.10		ug/L		102	64 - 138	3	30
Ethylbenzene	ND		5.00	5.44		ug/L		109	80 - 120	1	30
Methyl tert-butyl ether	ND		5.00	5.16		ug/L		103	69 - 120	3	30
Methylene Chloride	ND		5.00	5.48		ug/L		109	80 - 120	2	30
Styrene	ND		5.00	5.59		ug/L		112	80 - 120	0	30
Tetrachloroethene	4.8		5.00	9.51		ug/L		95	80 - 120	1	30
Toluene	ND		5.00	5.18		ug/L		104	80 - 120	2	30
trans-1,2-Dichloroethene	ND		5.00	5.27		ug/L		105	80 - 122	4	30
trans-1,3-Dichloropropene	ND		5.00	5.29		ug/L		106	61 - 129	2	30
Trichloroethene	1.4		5.00	6.79		ug/L		108	80 - 120	0	30
Vinyl chloride	ND	^c FH cn	5.00	6.35	FH	ug/L		127	60 - 125	3	30
Xylenes, Total	ND		15.0	16.3		ug/L		108	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-291906/7
Matrix: Water
Analysis Batch: 291906

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/01/22 13:15	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/01/22 13:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/01/22 13:15	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/01/22 13:15	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/01/22 13:15	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/01/22 13:15	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/01/22 13:15	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/01/22 13:15	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/01/22 13:15	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/01/22 13:15	1
2-Hexanone	ND		5.0	0.10	ug/L			09/01/22 13:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/01/22 13:15	1
Acetone	1.04	J	5.0	1.0	ug/L			09/01/22 13:15	1
Benzene	ND		0.50	0.10	ug/L			09/01/22 13:15	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/01/22 13:15	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/01/22 13:15	1
Bromoform	ND		1.0	0.30	ug/L			09/01/22 13:15	1
Bromomethane	ND		0.50	0.10	ug/L			09/01/22 13:15	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/01/22 13:15	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/01/22 13:15	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/01/22 13:15	1
Chloroethane	ND		0.50	0.10	ug/L			09/01/22 13:15	1
Chloroform	ND		0.50	0.090	ug/L			09/01/22 13:15	1
Chloromethane	ND		0.50	0.10	ug/L			09/01/22 13:15	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/01/22 13:15	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/01/22 13:15	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/01/22 13:15	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/01/22 13:15	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/01/22 13:15	1
Methylene Chloride	ND		0.50	0.10	ug/L			09/01/22 13:15	1
Styrene	ND		0.50	0.070	ug/L			09/01/22 13:15	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/01/22 13:15	1
Toluene	ND		0.50	0.080	ug/L			09/01/22 13:15	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/01/22 13:15	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/01/22 13:15	1
Trichloroethene	ND		0.50	0.080	ug/L			09/01/22 13:15	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/01/22 13:15	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/01/22 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*09/01/22 13:15*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*09/01/22 13:15*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/01/22 13:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/01/22 13:15*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-291906/5
Matrix: Water
Analysis Batch: 291906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	5.15		ug/L		103	71 - 134
1,1,1-Trichloroethane	5.00	3.78	*-	ug/L		76	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.39		ug/L		108	75 - 123
1,1,2-Trichloroethane	5.00	5.70		ug/L		114	80 - 120
1,1-Dichloroethane	5.00	4.84		ug/L		97	74 - 120
1,1-Dichloroethene	5.00	3.69	*-	ug/L		74	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.75		ug/L		115	80 - 120
1,2-Dichloroethane	5.00	5.14		ug/L		103	69 - 122
1,2-Dichloropropane	5.00	5.13		ug/L		103	80 - 120
2-Butanone (MEK)	62.5	62.5		ug/L		100	59 - 141
2-Hexanone	62.5	63.9		ug/L		102	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	65.9		ug/L		105	55 - 140
Acetone	62.5	55.5		ug/L		89	60 - 146
Benzene	5.00	5.07		ug/L		101	80 - 120
Bromochloromethane	5.00	5.06		ug/L		101	80 - 120
Bromodichloromethane	5.00	5.21		ug/L		104	73 - 124
Bromoform	5.00	5.47		ug/L		109	49 - 144
Bromomethane	5.00	5.22		ug/L		104	60 - 136
Carbon disulfide	5.00	4.28		ug/L		86	67 - 130
Carbon tetrachloride	5.00	4.01		ug/L		80	64 - 141
Chlorobenzene	5.00	5.10		ug/L		102	80 - 120
Chloroethane	5.00	4.84		ug/L		97	63 - 120
Chloroform	5.00	5.00		ug/L		100	80 - 120
Chloromethane	5.00	4.93		ug/L		99	56 - 124
cis-1,2-Dichloroethene	5.00	5.08		ug/L		102	80 - 122
cis-1,3-Dichloropropene	5.00	4.90		ug/L		98	67 - 121
Dibromochloromethane	5.00	5.73		ug/L		115	64 - 138
Ethylbenzene	5.00	5.21		ug/L		104	80 - 120
Methyl tert-butyl ether	5.00	4.45		ug/L		89	69 - 120
Methylene Chloride	5.00	4.68		ug/L		94	80 - 120
Styrene	5.00	5.58		ug/L		112	80 - 120
Tetrachloroethene	5.00	5.19		ug/L		104	80 - 120
Toluene	5.00	5.40		ug/L		108	80 - 120
trans-1,2-Dichloroethene	5.00	4.47		ug/L		89	80 - 122
trans-1,3-Dichloropropene	5.00	5.60		ug/L		112	61 - 129
Trichloroethene	5.00	4.85		ug/L		97	80 - 120
Vinyl chloride	5.00	4.90		ug/L		98	60 - 125
Xylenes, Total	15.0	15.9		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*110*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-292752/10
Matrix: Water
Analysis Batch: 292752

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/05/22 13:27	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/05/22 13:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/05/22 13:27	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/05/22 13:27	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/05/22 13:27	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/05/22 13:27	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/05/22 13:27	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/05/22 13:27	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/05/22 13:27	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/05/22 13:27	1
2-Hexanone	ND		5.0	0.10	ug/L			09/05/22 13:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/05/22 13:27	1
Acetone	ND		5.0	1.0	ug/L			09/05/22 13:27	1
Benzene	ND		0.50	0.10	ug/L			09/05/22 13:27	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/05/22 13:27	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/05/22 13:27	1
Bromoform	ND		1.0	0.30	ug/L			09/05/22 13:27	1
Bromomethane	ND		0.50	0.10	ug/L			09/05/22 13:27	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/05/22 13:27	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/05/22 13:27	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/05/22 13:27	1
Chloroethane	ND		0.50	0.10	ug/L			09/05/22 13:27	1
Chloroform	ND		0.50	0.090	ug/L			09/05/22 13:27	1
Chloromethane	ND		0.50	0.10	ug/L			09/05/22 13:27	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/05/22 13:27	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/05/22 13:27	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/05/22 13:27	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/05/22 13:27	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/05/22 13:27	1
Methylene Chloride	ND		0.50	0.10	ug/L			09/05/22 13:27	1
Styrene	ND		0.50	0.070	ug/L			09/05/22 13:27	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/05/22 13:27	1
Toluene	ND		0.50	0.080	ug/L			09/05/22 13:27	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/05/22 13:27	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/05/22 13:27	1
Trichloroethene	ND		0.50	0.080	ug/L			09/05/22 13:27	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/05/22 13:27	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/05/22 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*09/05/22 13:27*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/05/22 13:27*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/05/22 13:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/05/22 13:27*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-292752/5
Matrix: Water
Analysis Batch: 292752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.82		ug/L		96	71 - 134
1,1,1-Trichloroethane	5.00	4.81		ug/L		96	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.75		ug/L		95	75 - 123
1,1,2-Trichloroethane	5.00	4.87		ug/L		97	80 - 120
1,1-Dichloroethane	5.00	4.65		ug/L		93	74 - 120
1,1-Dichloroethene	5.00	5.02		ug/L		100	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.93		ug/L		99	80 - 120
1,2-Dichloroethane	5.00	4.73		ug/L		95	69 - 122
1,2-Dichloropropane	5.00	4.69		ug/L		94	80 - 120
2-Butanone (MEK)	62.5	56.2		ug/L		90	59 - 141
2-Hexanone	62.5	57.4		ug/L		92	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	55.9		ug/L		89	55 - 140
Acetone	62.5	51.8		ug/L		83	60 - 146
Benzene	5.00	4.78		ug/L		96	80 - 120
Bromochloromethane	5.00	5.07		ug/L		101	80 - 120
Bromodichloromethane	5.00	4.98		ug/L		100	73 - 124
Bromoform	5.00	5.27		ug/L		105	49 - 144
Bromomethane	5.00	4.85		ug/L		97	60 - 136
Carbon disulfide	5.00	5.38		ug/L		108	67 - 130
Carbon tetrachloride	5.00	4.93		ug/L		99	64 - 141
Chlorobenzene	5.00	4.66		ug/L		93	80 - 120
Chloroethane	5.00	4.68		ug/L		94	63 - 120
Chloroform	5.00	4.78		ug/L		96	80 - 120
Chloromethane	5.00	4.56		ug/L		91	56 - 124
cis-1,2-Dichloroethene	5.00	4.97		ug/L		99	80 - 122
cis-1,3-Dichloropropene	5.00	4.94		ug/L		99	67 - 121
Dibromochloromethane	5.00	5.07		ug/L		101	64 - 138
Ethylbenzene	5.00	4.72		ug/L		94	80 - 120
Methyl tert-butyl ether	5.00	5.02		ug/L		100	69 - 120
Methylene Chloride	5.00	4.91		ug/L		98	80 - 120
Styrene	5.00	4.82		ug/L		96	80 - 120
Tetrachloroethene	5.00	4.79		ug/L		96	80 - 120
Toluene	5.00	4.69		ug/L		94	80 - 120
trans-1,2-Dichloroethene	5.00	4.79		ug/L		96	80 - 122
trans-1,3-Dichloropropene	5.00	5.02		ug/L		100	61 - 129
Trichloroethene	5.00	4.81		ug/L		96	80 - 120
Vinyl chloride	5.00	4.75		ug/L		95	60 - 125
Xylenes, Total	15.0	14.2		ug/L		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-292752/6
Matrix: Water
Analysis Batch: 292752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	4.85		ug/L		97	71 - 134	0	30
1,1,1-Trichloroethane			5.00	4.80		ug/L		96	78 - 126	0	30
1,1,2,2-Tetrachloroethane			5.00	4.86		ug/L		97	75 - 123	2	30
1,1,2-Trichloroethane			5.00	4.81		ug/L		96	80 - 120	1	30
1,1-Dichloroethane			5.00	4.67		ug/L		93	74 - 120	0	30
1,1-Dichloroethene			5.00	5.00		ug/L		100	80 - 131	0	30
1,2-Dibromoethane (EDB)			5.00	4.90		ug/L		98	80 - 120	1	30
1,2-Dichloroethane			5.00	4.51		ug/L		90	69 - 122	5	30
1,2-Dichloropropane			5.00	4.72		ug/L		94	80 - 120	1	30
2-Butanone (MEK)			62.5	56.5		ug/L		90	59 - 141	1	30
2-Hexanone			62.5	56.2		ug/L		90	52 - 140	2	30
4-Methyl-2-pentanone (MIBK)			62.5	55.3		ug/L		89	55 - 140	1	30
Acetone			62.5	52.9		ug/L		85	60 - 146	2	30
Benzene			5.00	4.77		ug/L		95	80 - 120	0	30
Bromochloromethane			5.00	4.99		ug/L		100	80 - 120	1	30
Bromodichloromethane			5.00	4.93		ug/L		99	73 - 124	1	30
Bromoform			5.00	5.23		ug/L		105	49 - 144	1	30
Bromomethane			5.00	4.84		ug/L		97	60 - 136	0	30
Carbon disulfide			5.00	5.35		ug/L		107	67 - 130	1	30
Carbon tetrachloride			5.00	4.95		ug/L		99	64 - 141	1	30
Chlorobenzene			5.00	4.68		ug/L		94	80 - 120	0	30
Chloroethane			5.00	4.70		ug/L		94	63 - 120	0	30
Chloroform			5.00	4.73		ug/L		95	80 - 120	1	30
Chloromethane			5.00	4.50		ug/L		90	56 - 124	1	30
cis-1,2-Dichloroethene			5.00	4.95		ug/L		99	80 - 122	0	30
cis-1,3-Dichloropropene			5.00	4.83		ug/L		97	67 - 121	2	30
Dibromochloromethane			5.00	4.95		ug/L		99	64 - 138	2	30
Ethylbenzene			5.00	4.74		ug/L		95	80 - 120	0	30
Methyl tert-butyl ether			5.00	5.05		ug/L		101	69 - 120	0	30
Methylene Chloride			5.00	4.81		ug/L		96	80 - 120	2	30
Styrene			5.00	4.80		ug/L		96	80 - 120	0	30
Tetrachloroethene			5.00	4.83		ug/L		97	80 - 120	1	30
Toluene			5.00	4.66		ug/L		93	80 - 120	1	30
trans-1,2-Dichloroethene			5.00	4.78		ug/L		96	80 - 122	0	30
trans-1,3-Dichloropropene			5.00	5.04		ug/L		101	61 - 129	0	30
Trichloroethene			5.00	4.73		ug/L		95	80 - 120	2	30
Vinyl chloride			5.00	4.74		ug/L		95	60 - 125	0	30
Xylenes, Total			15.0	14.2		ug/L		95	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-292755/7
Matrix: Water
Analysis Batch: 292755

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/05/22 12:05	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			09/05/22 12:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/05/22 12:05	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			09/05/22 12:05	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/05/22 12:05	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/05/22 12:05	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			09/05/22 12:05	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			09/05/22 12:05	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			09/05/22 12:05	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			09/05/22 12:05	1
2-Hexanone	ND		5.0	0.10	ug/L			09/05/22 12:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			09/05/22 12:05	1
Acetone	ND		5.0	1.0	ug/L			09/05/22 12:05	1
Benzene	ND		0.50	0.10	ug/L			09/05/22 12:05	1
Bromochloromethane	ND		0.50	0.080	ug/L			09/05/22 12:05	1
Bromodichloromethane	ND		0.50	0.080	ug/L			09/05/22 12:05	1
Bromoform	ND		1.0	0.30	ug/L			09/05/22 12:05	1
Bromomethane	ND		0.50	0.10	ug/L			09/05/22 12:05	1
Carbon disulfide	ND		1.0	0.10	ug/L			09/05/22 12:05	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			09/05/22 12:05	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/05/22 12:05	1
Chloroethane	ND		0.50	0.10	ug/L			09/05/22 12:05	1
Chloroform	ND		0.50	0.090	ug/L			09/05/22 12:05	1
Chloromethane	ND		0.50	0.10	ug/L			09/05/22 12:05	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			09/05/22 12:05	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/05/22 12:05	1
Dibromochloromethane	ND		0.50	0.080	ug/L			09/05/22 12:05	1
Ethylbenzene	ND		0.50	0.080	ug/L			09/05/22 12:05	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			09/05/22 12:05	1
Methylene Chloride	ND		0.50	0.10	ug/L			09/05/22 12:05	1
Styrene	ND		0.50	0.070	ug/L			09/05/22 12:05	1
Tetrachloroethene	ND		0.50	0.20	ug/L			09/05/22 12:05	1
Toluene	ND		0.50	0.080	ug/L			09/05/22 12:05	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			09/05/22 12:05	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/05/22 12:05	1
Trichloroethene	ND		0.50	0.080	ug/L			09/05/22 12:05	1
Vinyl chloride	ND		0.50	0.10	ug/L			09/05/22 12:05	1
Xylenes, Total	ND		1.0	0.070	ug/L			09/05/22 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*09/05/22 12:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/05/22 12:05*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/05/22 12:05*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/05/22 12:05*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-292755/4
Matrix: Water
Analysis Batch: 292755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	5.24		ug/L		105	71 - 134
1,1,1-Trichloroethane	5.00	5.14		ug/L		103	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.84		ug/L		97	75 - 123
1,1,2-Trichloroethane	5.00	4.94		ug/L		99	80 - 120
1,1-Dichloroethane	5.00	4.79		ug/L		96	74 - 120
1,1-Dichloroethene	5.00	5.19		ug/L		104	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.93		ug/L		99	80 - 120
1,2-Dichloroethane	5.00	4.84		ug/L		97	69 - 122
1,2-Dichloropropane	5.00	4.94		ug/L		99	80 - 120
2-Butanone (MEK)	62.5	63.7		ug/L		102	59 - 141
2-Hexanone	62.5	66.7		ug/L		107	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	64.0		ug/L		102	55 - 140
Acetone	62.5	53.9		ug/L		86	60 - 146
Benzene	5.00	4.83		ug/L		97	80 - 120
Bromochloromethane	5.00	5.06		ug/L		101	80 - 120
Bromodichloromethane	5.00	5.33		ug/L		107	73 - 124
Bromoform	5.00	5.99		ug/L		120	49 - 144
Bromomethane	5.00	4.81		ug/L		96	60 - 136
Carbon disulfide	5.00	5.70		ug/L		114	67 - 130
Carbon tetrachloride	5.00	5.27		ug/L		105	64 - 141
Chlorobenzene	5.00	4.78		ug/L		96	80 - 120
Chloroethane	5.00	4.88		ug/L		98	63 - 120
Chloroform	5.00	4.93		ug/L		99	80 - 120
Chloromethane	5.00	4.73		ug/L		95	56 - 124
cis-1,2-Dichloroethene	5.00	5.05		ug/L		101	80 - 122
cis-1,3-Dichloropropene	5.00	5.19		ug/L		104	67 - 121
Dibromochloromethane	5.00	5.59		ug/L		112	64 - 138
Ethylbenzene	5.00	4.82		ug/L		96	80 - 120
Methyl tert-butyl ether	5.00	5.00		ug/L		100	69 - 120
Methylene Chloride	5.00	4.88		ug/L		98	80 - 120
Styrene	5.00	4.87		ug/L		97	80 - 120
Tetrachloroethene	5.00	4.97		ug/L		99	80 - 120
Toluene	5.00	4.80		ug/L		96	80 - 120
trans-1,2-Dichloroethene	5.00	4.87		ug/L		97	80 - 122
trans-1,3-Dichloropropene	5.00	5.55		ug/L		111	61 - 129
Trichloroethene	5.00	4.89		ug/L		98	80 - 120
Vinyl chloride	5.00	4.72		ug/L		94	60 - 125
Xylenes, Total	15.0	14.7		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-292755/5
Matrix: Water
Analysis Batch: 292755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	5.06		ug/L		101	71 - 134	3	30
1,1,1-Trichloroethane			5.00	4.91		ug/L		98	78 - 126	5	30
1,1,2,2-Tetrachloroethane			5.00	4.81		ug/L		96	75 - 123	1	30
1,1,2-Trichloroethane			5.00	4.79		ug/L		96	80 - 120	3	30
1,1-Dichloroethane			5.00	4.67		ug/L		93	74 - 120	3	30
1,1-Dichloroethene			5.00	4.68		ug/L		94	80 - 131	10	30
1,2-Dibromoethane (EDB)			5.00	4.77		ug/L		95	80 - 120	3	30
1,2-Dichloroethane			5.00	4.85		ug/L		97	69 - 122	0	30
1,2-Dichloropropane			5.00	4.78		ug/L		96	80 - 120	3	30
2-Butanone (MEK)			62.5	52.0		ug/L		83	59 - 141	20	30
2-Hexanone			62.5	53.4		ug/L		85	52 - 140	22	30
4-Methyl-2-pentanone (MIBK)			62.5	53.6		ug/L		86	55 - 140	18	30
Acetone			62.5	48.7		ug/L		78	60 - 146	10	30
Benzene			5.00	4.68		ug/L		94	80 - 120	3	30
Bromochloromethane			5.00	4.97		ug/L		99	80 - 120	2	30
Bromodichloromethane			5.00	5.19		ug/L		104	73 - 124	3	30
Bromoform			5.00	5.77		ug/L		115	49 - 144	4	30
Bromomethane			5.00	4.59		ug/L		92	60 - 136	5	30
Carbon disulfide			5.00	5.36		ug/L		107	67 - 130	6	30
Carbon tetrachloride			5.00	4.99		ug/L		100	64 - 141	5	30
Chlorobenzene			5.00	4.61		ug/L		92	80 - 120	4	30
Chloroethane			5.00	4.66		ug/L		93	63 - 120	4	30
Chloroform			5.00	4.75		ug/L		95	80 - 120	4	30
Chloromethane			5.00	4.46		ug/L		89	56 - 124	6	30
cis-1,2-Dichloroethene			5.00	4.91		ug/L		98	80 - 122	3	30
cis-1,3-Dichloropropene			5.00	5.04		ug/L		101	67 - 121	3	30
Dibromochloromethane			5.00	5.39		ug/L		108	64 - 138	4	30
Ethylbenzene			5.00	4.65		ug/L		93	80 - 120	4	30
Methyl tert-butyl ether			5.00	4.90		ug/L		98	69 - 120	2	30
Methylene Chloride			5.00	4.76		ug/L		95	80 - 120	3	30
Styrene			5.00	4.66		ug/L		93	80 - 120	4	30
Tetrachloroethene			5.00	4.76		ug/L		95	80 - 120	4	30
Toluene			5.00	4.63		ug/L		93	80 - 120	4	30
trans-1,2-Dichloroethene			5.00	4.63		ug/L		93	80 - 122	5	30
trans-1,3-Dichloropropene			5.00	5.33		ug/L		107	61 - 129	4	30
Trichloroethene			5.00	4.70		ug/L		94	80 - 120	4	30
Vinyl chloride			5.00	4.54		ug/L		91	60 - 125	4	30
Xylenes, Total			15.0	14.1		ug/L		94	80 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-95715-1

GC/MS VOA

Analysis Batch: 291418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95715-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-95715-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-95715-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-95715-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-95715-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-95715-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-95715-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-95715-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-95715-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-95715-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
MB 410-291418/6	Method Blank	Total/NA	Water	8260D	
LCS 410-291418/4	Lab Control Sample	Total/NA	Water	8260D	
410-95715-6 MS	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-95715-6 MSD	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	

Analysis Batch: 291906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95715-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-95715-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-95715-13	HD-QC1-0-1-1	Total/NA	Water	8260D	
410-95715-14	HD-QC1-0-1-2	Total/NA	Water	8260D	
MB 410-291906/7	Method Blank	Total/NA	Water	8260D	
LCS 410-291906/5	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 292752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95715-13 - DL	HD-QC1-0-1-1	Total/NA	Water	8260D	
MB 410-292752/10	Method Blank	Total/NA	Water	8260D	
LCS 410-292752/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-292752/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 292755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95715-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
MB 410-292755/7	Method Blank	Total/NA	Water	8260D	
LCS 410-292755/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-292755/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Client Sample ID: HD-COD-SW-6-0/1-0

Lab Sample ID: 410-95715-1

Date Collected: 08/25/22 10:30

Matrix: Water

Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 12:33

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-95715-2

Date Collected: 08/25/22 11:25

Matrix: Water

Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 12:54

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-95715-3

Date Collected: 08/25/22 09:15

Matrix: Water

Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 13:15

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-95715-4

Date Collected: 08/25/22 13:05

Matrix: Water

Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 13:36

Client Sample ID: HD-COD-SW-13-0/1-0

Lab Sample ID: 410-95715-5

Date Collected: 08/25/22 09:35

Matrix: Water

Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 13:57

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-95715-6

Date Collected: 08/25/22 11:45

Matrix: Water

Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 14:18

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-95715-7

Date Collected: 08/25/22 10:00

Matrix: Water

Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 15:22

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-95715-8
Date Collected: 08/25/22 10:10
Matrix: Water
Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	10	292755	DVW2	ELLE	09/05/22 18:43
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 15:43

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-95715-9
Date Collected: 08/25/22 11:05
Matrix: Water
Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 16:04

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-95715-10
Date Collected: 08/25/22 11:35
Matrix: Water
Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291418	DVW2	ELLE	08/31/22 16:26

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-95715-11
Date Collected: 08/25/22 13:15
Matrix: Water
Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291906	DVW2	ELLE	09/01/22 14:44

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-95715-12
Date Collected: 08/25/22 09:00
Matrix: Water
Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291906	DVW2	ELLE	09/01/22 15:05

Client Sample ID: HD-QC1-0-1-1
Lab Sample ID: 410-95715-13
Date Collected: 08/25/22 10:20
Matrix: Water
Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	10	292752	DVW2	ELLE	09/05/22 21:19
Total/NA	Analysis	8260D		1	291906	DVW2	ELLE	09/01/22 15:26

Client Sample ID: HD-QC1-0-1-2
Lab Sample ID: 410-95715-14
Date Collected: 08/25/22 00:00
Matrix: Water
Date Received: 08/25/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	291906	DVW2	ELLE	09/01/22 14:22

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-95715-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Job ID: 410-95715-1
Project/Site: fYNOP Monthly Surface Water

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-23

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-95715-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-95715-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-95715-1	HD-COD-SW-6-0/1-0	Water	08/25/22 10:30	08/25/22 15:48
410-95715-2	HD-COD-SW-7-0/1-0	Water	08/25/22 11:25	08/25/22 15:48
410-95715-3	HD-COD-SW-8-0/1-0	Water	08/25/22 09:15	08/25/22 15:48
410-95715-4	HD-COD-SW-9-0/1-0	Water	08/25/22 13:05	08/25/22 15:48
410-95715-5	HD-COD-SW-13-0/1-0	Water	08/25/22 09:35	08/25/22 15:48
410-95715-6	HD-COD-SW-15-0/1-0	Water	08/25/22 11:45	08/25/22 15:48
410-95715-7	HD-COD-SW-16-0/1-0	Water	08/25/22 10:00	08/25/22 15:48
410-95715-8	HD-COD-SW-17-0/1-0	Water	08/25/22 10:10	08/25/22 15:48
410-95715-9	HD-COD-SW-26-0/1-0	Water	08/25/22 11:05	08/25/22 15:48
410-95715-10	HD-COD-SW-27-0/1-0	Water	08/25/22 11:35	08/25/22 15:48
410-95715-11	HD-COD-SW-28-0/1-0	Water	08/25/22 13:15	08/25/22 15:48
410-95715-12	HD-COD-SW-29-0/1-0	Water	08/25/22 09:00	08/25/22 15:48
410-95715-13	HD-QC1-0-1-1	Water	08/25/22 10:20	08/25/22 15:48
410-95715-14	HD-QC1-0-1-2	Water	08/25/22 00:00	08/25/22 15:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 288300

Lab Sample ID: IC 410-288300/3 Client Sample ID:

Date Analyzed: 08/22/22 16:29 Lab File ID: CG22X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	4.74	Incomplete Integration	DVW2	08/23/22 08:33
cis-1,4-Dichloro-2-butene	11.79	Wrong peak	UCB5	08/30/22 16:04

Lab Sample ID: IC 410-288300/4 Client Sample ID:

Date Analyzed: 08/22/22 16:52 Lab File ID: CG22X03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.54	Incomplete Integration	DVW2	08/23/22 08:34
cis-1,4-Dichloro-2-butene	11.79	Wrong peak	UCB5	08/30/22 16:04

Lab Sample ID: IC 410-288300/5 Client Sample ID:

Date Analyzed: 08/22/22 17:14 Lab File ID: CG22X04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.52	Incomplete Integration	DVW2	08/23/22 08:35
Ethyl acetate	5.64	Incomplete Integration	DVW2	08/23/22 08:35
cis-1,4-Dichloro-2-butene	11.79	Wrong peak	UCB5	08/30/22 16:05

Lab Sample ID: IC 410-288300/6 Client Sample ID:

Date Analyzed: 08/22/22 17:36 Lab File ID: CG22X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.51	Incomplete Integration	DVW2	08/23/22 08:36
cis-1,4-Dichloro-2-butene	11.79	Wrong peak	UCB5	08/30/22 16:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 288300

Lab Sample ID: IC 410-288300/7 Client Sample ID:

Date Analyzed: 08/22/22 17:58 Lab File ID: CG22X06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.53	Incomplete Integration	DVW2	08/23/22 08:37
cis-1,4-Dichloro-2-butene	11.78	Wrong peak	UCB5	08/30/22 16:06

Lab Sample ID: IC 410-288300/8 Client Sample ID:

Date Analyzed: 08/22/22 18:21 Lab File ID: CG22X07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	11.79	Wrong peak	UCB5	08/30/22 16:06

Lab Sample ID: IC 410-288300/9 Client Sample ID:

Date Analyzed: 08/22/22 18:43 Lab File ID: CG22X08.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.50	Incomplete Integration	DVW2	08/23/22 08:39
cis-1,4-Dichloro-2-butene	11.78	Wrong peak	UCB5	08/30/22 16:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 288300

Lab Sample ID: IC 410-288300/13 Client Sample ID:

Date Analyzed: 08/22/22 20:12 Lab File ID: CG22X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.04	Incomplete Integration	DVW2	08/23/22 09:23
Bromomethane	2.32	Incomplete Integration	DVW2	08/23/22 09:23
2-Chloro-1,3-butadiene	4.84	Incomplete Integration	DVW2	08/23/22 09:24
2,2-Dichloropropane	5.59	Incomplete Integration	DVW2	08/23/22 09:24
Propionitrile	5.69	Incomplete Integration	DVW2	08/23/22 09:24
Tetrahydrofuran	5.93	Incomplete Integration	DVW2	08/23/22 09:24
1,1-Dichloropropene	6.51	Incomplete Integration	DVW2	08/23/22 09:24
Isobutyl alcohol	6.73	Incomplete Integration	DVW2	08/23/22 09:24
t-Amyl methyl ether	6.98	Incomplete Integration	DVW2	08/23/22 09:24
2-Nitropropane	8.67	Incomplete Integration	DVW2	08/23/22 09:25

Lab Sample ID: IC 410-288300/14 Client Sample ID:

Date Analyzed: 08/22/22 20:34 Lab File ID: CG22X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	3.74	Incomplete Integration	DVW2	08/23/22 09:26
2-Chloro-1,3-butadiene	4.83	Incomplete Integration	DVW2	08/23/22 09:26
1,4-Dioxane	8.13	Incomplete Integration	DVW2	08/23/22 09:27

Lab Sample ID: IC 410-288300/15 Client Sample ID:

Date Analyzed: 08/22/22 20:57 Lab File ID: CG22X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran	5.92	Incomplete Integration	DVW2	08/23/22 09:28
1,4-Dioxane	8.15	Incomplete Integration	DVW2	08/23/22 09:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 288300

Lab Sample ID: IC 410-288300/16 Client Sample ID:

Date Analyzed: 08/22/22 21:19 Lab File ID: CG22X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.54	Incomplete Integration	DVW2	08/23/22 09:29

Lab Sample ID: IC 410-288300/17 Client Sample ID:

Date Analyzed: 08/22/22 21:41 Lab File ID: CG22X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.13	Incomplete Integration	DVW2	08/23/22 09:31

Lab Sample ID: ICIS 410-288300/18 Client Sample ID:

Date Analyzed: 08/22/22 22:04 Lab File ID: CG22X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	3.75	Incomplete Integration	DVW2	08/23/22 09:19
t-Butyl alcohol	3.85	Incomplete Integration	DVW2	08/23/22 09:19

Lab Sample ID: IC 410-288300/19 Client Sample ID:

Date Analyzed: 08/22/22 22:26 Lab File ID: CG22X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.13	Incomplete Integration	DVW2	08/23/22 09:32

Lab Sample ID: ICV 410-288300/21 Client Sample ID:

Date Analyzed: 08/22/22 23:10 Lab File ID: CG22X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.12	Incomplete Integration	DVW2	08/23/22 09:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 292752

Lab Sample ID: MB 410-292752/10 Client Sample ID:

Date Analyzed: 09/05/22 13:27 Lab File ID: CS05X09.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.15	Incomplete Integration	DVW2	09/05/22 13:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 286414

Lab Sample ID: IC 410-286414/3 Client Sample ID:

Date Analyzed: 08/16/22 13:45 Lab File ID: GG16X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methoxymethane	1.98	Incomplete Integration	DVW2	08/17/22 11:27
Acetonitrile	3.89	Incomplete Integration	DVW2	08/17/22 11:27
Ethyl acetate	6.03	Incomplete Integration	DVW2	08/16/22 14:20

Lab Sample ID: IC 410-286414/5 Client Sample ID:

Date Analyzed: 08/16/22 14:29 Lab File ID: GG16X04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methoxymethane	1.98	Incomplete Integration	DVW2	08/16/22 14:52
Acetonitrile	3.85	Incomplete Integration	DVW2	08/16/22 14:52

Lab Sample ID: IC 410-286414/6 Client Sample ID:

Date Analyzed: 08/16/22 14:51 Lab File ID: GG16X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl acetate	6.01	Incomplete Integration	DVW2	08/17/22 11:28

Lab Sample ID: IC 410-286414/8 Client Sample ID:

Date Analyzed: 08/16/22 15:35 Lab File ID: GG16X07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.87	Incomplete Integration	DVW2	08/17/22 11:29
t-Butyl alcohol-d10 (IS)	4.14	Incomplete Integration	DVW2	08/17/22 11:29

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 286414

Lab Sample ID: IC 410-286414/9 Client Sample ID:

Date Analyzed: 08/16/22 15:58 Lab File ID: GG16X08.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.84	Incomplete Integration	DVW2	08/17/22 11:30

Lab Sample ID: IC 410-286414/13 Client Sample ID:

Date Analyzed: 08/16/22 17:26 Lab File ID: GG16X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.22	Incomplete Integration	DVW2	08/17/22 11:31
Ethyl ether	3.14	Incomplete Integration	DVW2	08/17/22 11:31
Acetone	3.49	Incomplete Integration	DVW2	08/17/22 11:31
Carbon disulfide	3.71	Incomplete Integration	DVW2	08/17/22 11:31
Methyl acetate	3.88	Incomplete Integration	DVW2	08/17/22 11:32
1,1-Dichloroethane	5.14	Incomplete Integration	DVW2	08/17/22 11:32
1,4-Dioxane	8.56	Incomplete Integration	DVW2	08/17/22 11:32
Bromodichloromethane	8.73	Incomplete Integration	DVW2	08/17/22 11:32
2-Nitropropane	9.00	Incomplete Integration	DVW2	08/17/22 11:32

Lab Sample ID: IC 410-286414/14 Client Sample ID:

Date Analyzed: 08/16/22 17:48 Lab File ID: GG16X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.22	Incomplete Integration	DVW2	08/17/22 11:33
Methyl acetate	3.87	Incomplete Integration	DVW2	08/17/22 11:34
t-Butyl alcohol	4.26	Incomplete Integration	DVW2	08/17/22 11:34
Propionitrile	6.04	Incomplete Integration	DVW2	08/17/22 11:34
1,4-Dioxane	8.52	Incomplete Integration	DVW2	08/17/22 11:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 286414

Lab Sample ID: IC 410-286414/15 Client Sample ID:

Date Analyzed: 08/16/22 18:10 Lab File ID: GG16X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.22	Incomplete Integration	DVW2	08/17/22 11:36
Acetone	3.47	Incomplete Integration	DVW2	08/17/22 11:36
1,4-Dioxane	8.52	Incomplete Integration	DVW2	08/17/22 11:37

Lab Sample ID: IC 410-286414/16 Client Sample ID:

Date Analyzed: 08/16/22 18:32 Lab File ID: GG16X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.48	Incomplete Integration	DVW2	08/17/22 11:38
Methylcyclohexane	8.35	Incomplete Integration	DVW2	08/17/22 11:39
1,4-Dioxane	8.51	Incomplete Integration	DVW2	08/17/22 11:39

Lab Sample ID: IC 410-286414/17 Client Sample ID:

Date Analyzed: 08/16/22 18:54 Lab File ID: GG16X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.13	Incomplete Integration	DVW2	08/17/22 11:41

Lab Sample ID: ICIS 410-286414/18 Client Sample ID:

Date Analyzed: 08/16/22 19:17 Lab File ID: GG16X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.46	Incomplete Integration	DVW2	08/17/22 11:42
Methyl acetate	3.86	Incomplete Integration	DVW2	08/17/22 11:43
t-Butyl alcohol-d10 (IS)	4.11	Incomplete Integration	DVW2	08/17/22 11:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 286414

Lab Sample ID: IC 410-286414/19 Client Sample ID:

Date Analyzed: 08/16/22 19:38 Lab File ID: GG16X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.86	Incomplete Integration	DVW2	08/17/22 11:45
t-Butyl alcohol-d10 (IS)	4.15	Incomplete Integration	DVW2	08/17/22 11:45

Lab Sample ID: ICV 410-286414/21 Client Sample ID:

Date Analyzed: 08/16/22 20:22 Lab File ID: GG16X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.52	Incomplete Integration	DVW2	08/17/22 11:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 292755

Lab Sample ID: CCVIS 410-292755/3 Client Sample ID:

Date Analyzed: 09/05/22 10:37 Lab File ID: GS05X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.86	Incomplete Integration	DVW2	09/05/22 11:09

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 274212

Lab Sample ID: IC 410-274212/12 Client Sample ID:

Date Analyzed: 07/11/22 15:36 Lab File ID: IL11X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.00	Baseline	UKAD	07/12/22 12:31

Lab Sample ID: ICIS 410-274212/13 Client Sample ID:

Date Analyzed: 07/11/22 15:57 Lab File ID: IL11X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.01	Baseline	UKAD	07/12/22 12:37

Lab Sample ID: IC 410-274212/14 Client Sample ID:

Date Analyzed: 07/11/22 16:18 Lab File ID: IL11X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.01	Baseline	UKAD	07/12/22 12:38
1,4-Dioxane	8.60	Split Peak	UKAD	07/12/22 12:39

Lab Sample ID: IC 410-274212/15 Client Sample ID:

Date Analyzed: 07/11/22 16:39 Lab File ID: IL11X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.01	Baseline	UKAD	07/12/22 12:40
1,4-Dioxane	8.60	Incomplete Integration	UKAD	07/12/22 12:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 274212

Lab Sample ID: IC 410-274212/16 Client Sample ID:

Date Analyzed: 07/11/22 17:00 Lab File ID: IL11X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	3.00	Incomplete Integration	UKAD	07/12/22 12:41
Methyl acetate	4.02	Baseline	UKAD	07/12/22 12:42
Tetrahydrofuran	6.48	Baseline	UKAD	07/12/22 12:42

Lab Sample ID: IC 410-274212/17 Client Sample ID:

Date Analyzed: 07/11/22 17:22 Lab File ID: IL11X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.03	Baseline	UKAD	07/12/22 12:44
1,4-Dioxane	8.61	Incomplete Integration	UKAD	07/12/22 12:44
2-Hexanone	10.46	Incomplete Integration	UKAD	07/12/22 12:57

Lab Sample ID: IC 410-274212/18 Client Sample ID:

Date Analyzed: 07/11/22 17:43 Lab File ID: IL11X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran	6.48	Peak assignment corrected	UKAD	07/12/22 12:46
n-Butanol	8.13	Incomplete Integration	UKAD	07/12/22 12:53
1,4-Dioxane	8.62	Assign Peak	UKAD	07/12/22 12:47
Methyl methacrylate	8.62	Incomplete Integration	UKAD	07/12/22 12:54
cis-1,3-Dichloropropene	9.41	Assign Peak	UKAD	07/12/22 12:47
Ethyl methacrylate	10.13	Incomplete Integration	UKAD	07/12/22 12:55
2-Hexanone	10.49	Incomplete Integration	UKAD	07/12/22 12:57
Styrene	11.75	Assign Peak	UKAD	07/12/22 12:47
1,1,2,2-Tetrachloroethane	12.26	Assign Peak	UKAD	07/12/22 12:47

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 274690

Lab Sample ID: ICV 410-274690/6 Client Sample ID:

Date Analyzed: 07/12/22 16:20 Lab File ID: IL12X06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.01	Incomplete Integration	K4WN	07/14/22 16:30
t-Butyl alcohol	4.36	Incomplete Integration	K4WN	07/14/22 16:30
1,4-Dioxane	8.61	Incomplete Integration	K4WN	07/14/22 16:31

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 291418

Lab Sample ID: CCVIS 410-291418/3 Client Sample ID:

Date Analyzed: 08/31/22 10:04 Lab File ID: IG31X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Freon 113	3.61	Incomplete Integration	DVW2	08/31/22 10:33
Methyl acetate	4.00	Incomplete Integration	DVW2	08/31/22 10:34
t-Butyl alcohol	4.36	Incomplete Integration	DVW2	08/31/22 10:35
1,4-Dioxane	8.60	Incomplete Integration	DVW2	08/31/22 10:35

Lab Sample ID: LCS 410-291418/4 Client Sample ID:

Date Analyzed: 08/31/22 10:25 Lab File ID: IG31X03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	2.70	Incomplete Integration	DVW2	08/31/22 10:51

Lab Sample ID: MB 410-291418/6 Client Sample ID:

Date Analyzed: 08/31/22 11:08 Lab File ID: IG31X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	pongsawatp	09/01/22 09:21

Lab Sample ID: 410-95715-2 Client Sample ID: HD-COD-SW-7-0/1-0

Date Analyzed: 08/31/22 12:54 Lab File ID: IG31X10.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	8.18	Incomplete Integration	pongsawatp	09/01/22 12:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 291418

Lab Sample ID: 410-95715-3 Client Sample ID: HD-COD-SW-8-0/1-0

Date Analyzed: 08/31/22 13:15 Lab File ID: IG31X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.13	Peak assignment corrected	pongsawatp	09/01/22 09:30
Carbon disulfide	3.84	Incomplete Integration	pongsawatp	09/01/22 13:00
cis-1,2-Dichloroethene	6.13	Incomplete Integration	pongsawatp	09/01/22 09:31

Lab Sample ID: 410-95715-4 Client Sample ID: HD-COD-SW-9-0/1-0

Date Analyzed: 08/31/22 13:36 Lab File ID: IG31X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.14	Peak assignment corrected	pongsawatp	09/01/22 09:32
Carbon disulfide	3.87	Incomplete Integration	pongsawatp	09/01/22 13:01
Benzene	7.29	Incomplete Integration	pongsawatp	09/01/22 09:33

Lab Sample ID: 410-95715-5 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 08/31/22 13:57 Lab File ID: IG31X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.63	Incomplete Integration	pongsawatp	09/01/22 13:02
Carbon disulfide	3.87	Incomplete Integration	pongsawatp	09/01/22 09:35
Benzene	7.31	Incomplete Integration	pongsawatp	09/01/22 09:36
Trichloroethene	8.20	Incomplete Integration	pongsawatp	09/01/22 13:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 291418

Lab Sample ID: 410-95715-6 Client Sample ID: HD-COD-SW-15-0/1-0

Date Analyzed: 08/31/22 14:18 Lab File ID: IG31X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.56	Incomplete Integration	pongsawatp	09/01/22 13:03
Carbon disulfide	3.89	Incomplete Integration	pongsawatp	09/01/22 13:04
1,1-Dichloroethane	5.32	Incomplete Integration	pongsawatp	09/01/22 09:38
Toluene	9.79	Incomplete Integration	pongsawatp	09/01/22 09:39
Acetone		Invalid Compound ID	pongsawatp	09/01/22 09:37
4-Bromofluorobenzene (Surr)	12.16	Peak assignment corrected	pongsawatp	09/01/22 09:37

Lab Sample ID: 410-95715-6 MS Client Sample ID:

Date Analyzed: 08/31/22 14:39 Lab File ID: IG31X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.25	Incomplete Integration	pongsawatp	09/01/22 13:04

Lab Sample ID: 410-95715-7 Client Sample ID: HD-COD-SW-16-0/1-0

Date Analyzed: 08/31/22 15:22 Lab File ID: IG31X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.87	Incomplete Integration	UKAD	09/01/22 11:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 291418

Lab Sample ID: 410-95715-8 Client Sample ID: HD-COD-SW-17-0/1-0

Date Analyzed: 08/31/22 15:43 Lab File ID: IG31X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	pongsawatp	09/01/22 09:46

Lab Sample ID: 410-95715-9 Client Sample ID:

Date Analyzed: 08/31/22 16:04 Lab File ID: IG31X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.25	Incomplete Integration	pongsawatp	09/01/22 13:06
cis-1,2-Dichloroethene	6.15	Peak assignment corrected	innoonk	09/01/22 14:35
Benzene	7.31	Incomplete Integration	pongsawatp	09/01/22 09:49
1,1,1-Trichloroethane		Invalid Compound ID	pongsawatp	09/01/22 09:48

Lab Sample ID: 410-95715-10 Client Sample ID: HD-COD-SW-27-0/1-0

Date Analyzed: 08/31/22 16:26 Lab File ID: IG31X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.87	Incomplete Integration	pongsawatp	09/01/22 09:50
t-Butyl alcohol-d10 (IS)	4.23	Incomplete Integration	pongsawatp	09/01/22 13:08
Trichloroethene	8.19	Incomplete Integration	pongsawatp	09/01/22 13:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 291906

Lab Sample ID: CCVIS 410-291906/3 Client Sample ID:

Date Analyzed: 09/01/22 11:50 Lab File ID: IS01X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.26	Incomplete Integration	DVW2	09/01/22 12:36
Trichlorofluoromethane	2.95	Incomplete Integration	DVW2	09/01/22 12:36
Freon 123a	3.32	Incomplete Integration	DVW2	09/01/22 12:36
Methyl acetate	4.01	Incomplete Integration	DVW2	09/01/22 12:39
Isobutyl alcohol	7.19	Incomplete Integration	DVW2	09/01/22 12:40

Lab Sample ID: 410-95715-11 Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 09/01/22 14:44 Lab File ID: IS01X09.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	7.30	Peak assignment corrected	innoonk	09/02/22 10:36
2-Butanone (MEK)		Invalid Compound ID	innoonk	09/02/22 10:36

Lab Sample ID: 410-95715-12 Client Sample ID: HD-COD-SW-29-0/1-0

Date Analyzed: 09/01/22 15:05 Lab File ID: IS01X10.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	7.30	Incomplete Integration	innoonk	09/02/22 10:38

Lab Sample ID: 410-95715-13 Client Sample ID: HD-QC1-0-1-1

Date Analyzed: 09/01/22 15:26 Lab File ID: IS01X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
trans-1,2-Dichloroethene	4.65	Incomplete Integration	innoonk	09/02/22 10:39
Vinyl chloride		Invalid Compound ID	innoonk	09/02/22 10:38

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_29_826ISO_00010	02/02/23	08/02/22	Methanol, Lot EB679	10 mL	MSV_Cus826_IS_00473	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00473	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_29_826ISS_00036	01/18/23	07/18/22	Methanol, Lot EB679	10 mL	MSV_Cus826_IS_00468	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00468	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_29_826ISS_00036	01/18/23	07/18/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00702	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MSV_8260_SS_00702	03/31/25		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_29_826ISS_00037	02/02/23	08/02/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00715	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					MSV_Cus826_IS_00473	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_8260_SS_00715	03/31/25		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00473	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_CCV_CYC_00004	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	100 mL	MSV_VCYC_STK_00008	2.787 mL	Cyclohexanone	6250.4 ug/mL
.MSV_VCYC_STK_00008	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	10 mL	MSV_CYC_00007	2.2427 g	Cyclohexanone	224270 ug/mL
..MSV_CYC_00007	05/31/23		Chem Service, Lot 12628400		(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_V5ACE_00013	09/08/22	08/09/22	Methanol, Lot EB679	10 mL	MSV_AcetatesV_00013	1 mL	Acetonitrile	5000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00013	10/31/22		Restek, Lot A0171524		(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_DME_00041	09/15/22		Absolute Standards, Inc, Lot 081920		(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_HP25_ISO_00007	02/22/23	08/22/22	Methanol, Lot EB679	10 mL	MSV_Cus826_IS_00483	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00483	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP25_ISSS_00057	02/04/23	08/04/22	Methanol, Lot EB679	10 mL	MSV_Cus826_IS_00478	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00478	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP25_ISSS_00057	02/04/23	08/04/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00721	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MSV_8260_SS_00721	03/31/25		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_HP25_ISSS_00058	02/22/23	08/22/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00734	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					MSV_Cus826_IS_00483	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_8260_SS_00734	03/31/25		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00483	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_LCS_VOC#1_00063	08/09/22	07/10/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00076	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00073	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00075	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00076	04/30/24		Restek, Lot A0171815		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00073	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00075	01/31/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00068	09/13/22	08/14/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00082	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00081	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_Q_Ketones_00081	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00082	04/30/24		Restek, Lot A0171815		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00081	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00081	01/31/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00069	09/20/22	08/21/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00083	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00082	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00082	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00083	04/30/24		Restek, Lot A0171815		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00082	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00082	01/31/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00070	09/27/22	08/28/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00084	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00085	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00083	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00084	04/30/24		Restek, Lot A0171815		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00085	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00083	01/31/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#1_826_00049	07/23/22	07/11/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00078	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00078	200 uL	Acrolein	2500 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00148	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
.MSV_CCV_VOC#1_00078	08/09/22	07/10/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00076	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00076	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00076	08/09/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00076	08/09/22		Restek, Lot A0173454		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							Propionitrile	25000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00078	07/23/22	07/10/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00004	0.5 mL	Acrolein	12500 ug/mL
					MSV_V_Ketones_00074	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00004	07/23/22	05/24/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00026	9.17 mL	Acrolein	125000 ug/mL
...MSV_VACR_STK_00026	07/23/22	05/24/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00019	1.4626 g	Acrolein	136314 ug/mL
....MSV_ACROLEIN_00019	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g
..MSV_V_Ketones_00074	01/31/24	Restek, Lot A0174287			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00148	08/09/22	07/10/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00277	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00277	04/30/24	Restek, Lot A0184378			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00052	09/11/22	08/15/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00083	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00084	200 uL	Acrolein	2499.94 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00153	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
.MSV_CCV_VOC#1_00083	09/13/22	08/14/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00082	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00081	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00082	09/13/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00081	09/13/22		Restek, Lot A0173454		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00084	09/11/22	08/14/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00005	0.5 mL	Acrolein	12499.7 ug/mL
					MSV_V_Ketones_00079	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00005	09/11/22	07/13/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00027	9.205 mL	Acrolein	124997 ug/mL
...MSV_VACR_STK_00027	09/11/22	07/13/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00020	1.457 g	Acrolein	135792 ug/mL
....MSV_ACROLEIN_00020	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g
..MSV_V_Ketones_00079	01/31/24	Restek, Lot A0174287			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00153	09/13/22	08/14/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00282	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00282	04/30/24	Restek, Lot A0184378			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00053	09/11/22	08/22/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00084	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00085	200 uL	Acrolein	2499.94 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00154	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
.MSV_CCV_VOC#1_00084	09/20/22	08/21/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00083	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00082	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00083	09/20/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00082	09/20/22		Restek, Lot A0173454		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00085	09/11/22	08/21/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00005	0.5 mL	Acrolein	12499.7 ug/mL
					MSV_V_Ketones_00080	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00005	09/11/22	07/13/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00027	9.205 mL	Acrolein	124997 ug/mL
...MSV_VACR_STK_00027	09/11/22	07/13/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00020	1.457 g	Acrolein	135792 ug/mL
....MSV_ACROLEIN_00020	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g
..MSV_V_Ketones_00080	07/31/24	Restek, Lot A0174287			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00154	09/20/22	08/21/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00283	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00283	04/30/24	Restek, Lot A0184378			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#2_826_00053	08/09/22	07/11/22	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00003	50 uL	Ethyl ether	50.0143 ug/mL
					MSV_V_PentaCL_00019	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00003	11/20/22	05/20/22	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00010	1.73 mL	Ethyl ether	1000.29 ug/mL
..MSV_EE_MISCSK_00010	11/20/22	05/20/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00007	0.5782 g	Ethyl ether	57820 ug/mL
...MSV_EE_Neat_00007	12/31/25	Chem Service, Lot 12123300			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00019	08/09/22	Restek, Lot A0171341			(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_#2_826_00056	09/07/22	08/16/22	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00003	50 uL	Ethyl ether	50.0143 ug/mL
					MSV_V_PentaCL_00020	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00003	11/20/22	05/20/22	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00010	1.73 mL	Ethyl ether	1000.29 ug/mL
..MSV_EE_MISCSK_00010	11/20/22	05/20/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00007	0.5782 g	Ethyl ether	57820 ug/mL
...MSV_EE_Neat_00007	12/31/25	Chem Service, Lot 12123300			(Purchased Reagent)		Ethyl ether	1 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_V_PentaCL_00020	09/07/22	Restek, Lot A0171341			(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_#2_826_00057	09/07/22	08/22/22	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00003	50 uL	Ethyl ether	50.0143 ug/mL
					MSV_V_PentaCL_00020	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00003	11/20/22	05/20/22	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00010	1.73 mL	Ethyl ether	1000.29 ug/mL
..MSV_EE_MISCSK_00010	11/20/22	05/20/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00007	0.5782 g	Ethyl ether	57820 ug/mL
...MSV_EE_Neat_00007	12/31/25	Chem Service, Lot 12123300			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00020	09/07/22	Restek, Lot A0171341			(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00101	07/18/22	07/11/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00221	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00221	07/18/22	Restek, Lot A0172364			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LL_GAS826_00108	08/22/22	08/15/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00250	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00250	08/22/22	Restek, Lot A0172364			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_LL_GAS826_00109	08/29/22	08/22/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00256	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00256	08/29/22		Restek, Lot A0172364		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LL_GAS826_00110	09/05/22	08/29/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00261	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00261	09/05/22		Restek, Lot A0172364		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISS_00005	11/30/22	05/30/22	Methanol, Lot EB679	50 mL	MSV_8260_SS_00668	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					MSV_Cus826_IS_00451	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_8260_SS_00668	11/30/22		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00451	11/30/22		Restek, Lot A0179696		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_QC_Gas826_00089	07/17/22	07/11/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00096	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00096	07/17/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00095	08/21/22	08/15/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00103	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00103	08/21/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00096	08/28/22	08/22/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00104	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00104	08/28/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00097	09/04/22	08/29/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00105	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00105	09/04/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00098	09/07/22	09/05/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00106	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00106	09/07/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00008							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00008	0.128 mL	BFB	49.8125 ug/mL
.MSV_VBFB_STK_00008	12/27/22	06/27/22	Methanol, Lot EB679	10 mL	MSV_4BFB_NEAT_00008	0.9729 g	BFB	97290 ug/mL
..MSV_4BFB_NEAT_00008	02/28/25		Chem Service, Lot 13233000		(Purchased Reagent)		BFB	1 g/g
MSV_V_SMRV4_00044	08/26/22	08/16/22	Methanol, Lot EB679	1 mL	MSV_CCV_2CEVE_00079	200 uL	2-Chloroethyl vinyl ether	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_CCV_LKB_00002	400 uL	cis-1,4-Dichloro-2-butene	399.907 ug/mL
					MSV_V_SMFreon_00033	100 uL	Chlorodifluoromethane	200 ug/mL
.MSV_CCV_2CEVE_00079	09/13/22	08/14/22	Methanol, Lot EB679	5 mL	MSV_V_2CLEVE_00080	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00080	04/30/24		Restek, Lot A0171422		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_LKB_00002	12/29/22	08/09/22	Methanol, Lot EB679	50 mL	MSV_Vc14d_STK_00007	2.139 mL	cis-1,4-Dichloro-2-butene	999.769 ug/mL
..MSV_Vc14d_STK_00007	12/29/22	08/09/22	Methanol, Lot EB679	10 mL	MSV_c14dcb_Nt_00003	0.246 g	cis-1,4-Dichloro-2-butene	23370 ug/mL
...MSV_c14dcb_Nt_00003	08/11/25		Aldrich, Lot SHBH4584V		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
.MSV_V_SMFreon_00033	08/26/22		Restek, Lot A0172146		(Purchased Reagent)		Chlorodifluoromethane	2000 ug/mL
MSV_V_SMRV4_00045	09/20/22	08/22/22	Methanol, Lot EB679	1 mL	MSV_CCV_2CEVE_00080	200 uL	2-Chloroethyl vinyl ether	200 ug/mL
					MSV_CCV_LKB_00002	400 uL	cis-1,4-Dichloro-2-butene	399.907 ug/mL
					MSV_V_SMFreon_00016	100 uL	Chlorodifluoromethane	200 ug/mL
.MSV_CCV_2CEVE_00080	09/20/22	08/21/22	Methanol, Lot EB679	5 mL	MSV_V_2CLEVE_00081	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00081	04/30/24		Restek, Lot A0171422		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_LKB_00002	12/29/22	08/09/22	Methanol, Lot EB679	50 mL	MSV_Vc14d_STK_00007	2.139 mL	cis-1,4-Dichloro-2-butene	999.769 ug/mL
..MSV_Vc14d_STK_00007	12/29/22	08/09/22	Methanol, Lot EB679	10 mL	MSV_c14dcb_Nt_00003	0.246 g	cis-1,4-Dichloro-2-butene	23370 ug/mL
...MSV_c14dcb_Nt_00003	08/11/25		Aldrich, Lot SHBH4584V		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
.MSV_V_SMFreon_00016	09/21/22		Restek, Lot A0172146		(Purchased Reagent)		Chlorodifluoromethane	2000 ug/mL

Reagent

MSV_8260_SS_00721

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 55671 **Lot No.:** A0183565

Description : 8260A Surrogate Mix

8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 012021) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 µg/mL +/- 140.2006 µg/mL +/- 143.4811 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-32845) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 µg/mL +/- 140.2006 µg/mL +/- 143.4811 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-31958) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 µg/mL +/- 140.2006 µg/mL +/- 143.4811 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 140.2847 µg/mL +/- 143.5671 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

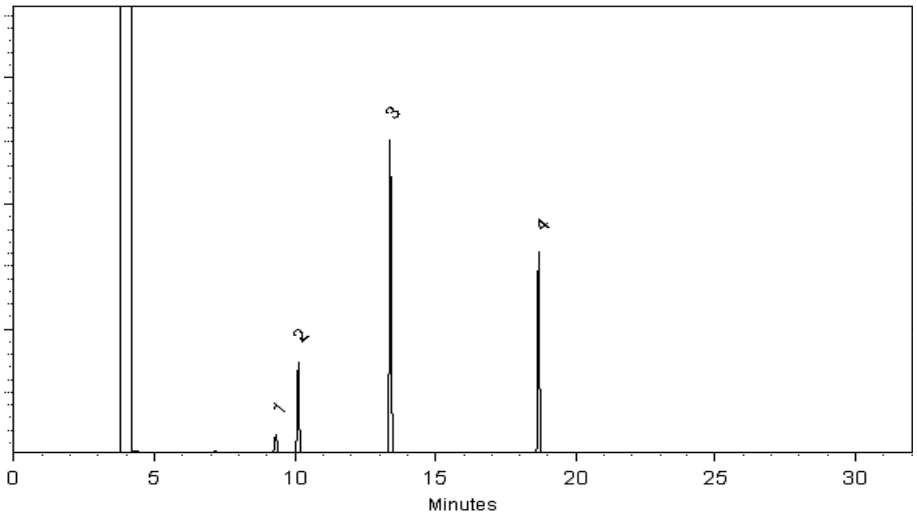
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 31-Mar-2022 **Balance:** 1127510105

Fang-Yun Lo - QC Analyst

Date Passed: 04-Apr-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_8260_SS_00734

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 55671 **Lot No.:** A0183565

Description : 8260A Surrogate Mix

8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane	2,500.5 µg/mL	+/- 14.5381 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 012021)		+/- 140.2006 µg/mL	Unstressed
	Purity 99%		+/- 143.4811 µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,500.5 µg/mL	+/- 14.5381 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-32845)		+/- 140.2006 µg/mL	Unstressed
	Purity 99%		+/- 143.4811 µg/mL	Stressed
3	Toluene-d8	2,500.5 µg/mL	+/- 14.5381 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-31958)		+/- 140.2006 µg/mL	Unstressed
	Purity 99%		+/- 143.4811 µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,502.0 µg/mL	+/- 14.5468 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 140.2847 µg/mL	Unstressed
	Purity 99%		+/- 143.5671 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

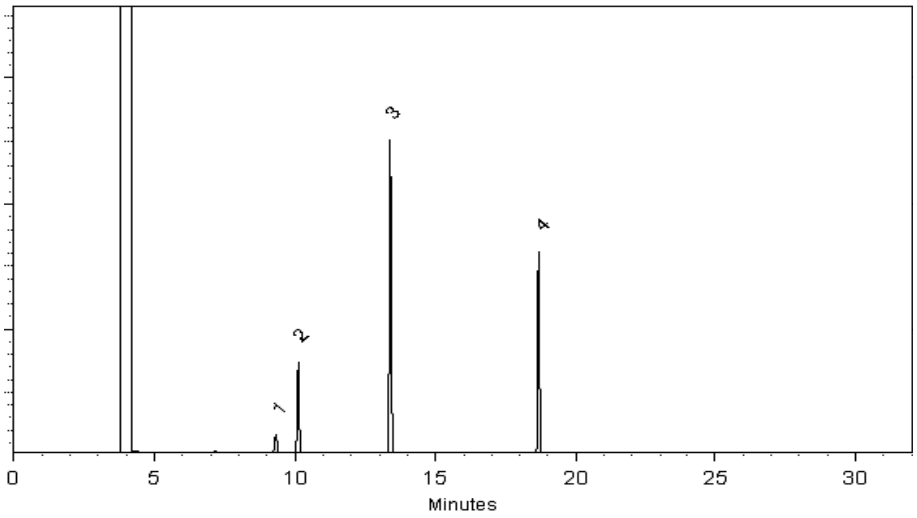
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 31-Mar-2022 **Balance:** 1127510105

Fang-Yun Lo - QC Analyst

Date Passed: 04-Apr-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_AcetatesV_00013

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577489 **Lot No.:** A0171524

Description : Custom Acetates Standard

Custom Acetates Standard 10,000-50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2022 **Storage:** -20°C or colder

Ship: On Ice

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetonitrile	50,228.0 µg/mL	+/- 294.0960 µg/mL	Gravimetric
	CAS # 75-05-8 (Lot SHBH6233)		+/- 2,484.9148 µg/mL	Unstressed
	Purity 99%		+/- 2,546.6923 µg/mL	Stressed
2	Vinyl acetate	10,008.0 µg/mL	+/- 58.7326 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot RD200601)		+/- 495.1386 µg/mL	Unstressed
	Purity 99%		+/- 507.4475 µg/mL	Stressed
3	Ethyl acetate	10,056.0 µg/mL	+/- 59.0142 µg/mL	Gravimetric
	CAS # 141-78-6 (Lot SHBM3421)		+/- 497.5134 µg/mL	Unstressed
	Purity 99%		+/- 509.8813 µg/mL	Stressed
4	Isopropyl acetate	10,052.0 µg/mL	+/- 58.9908 µg/mL	Gravimetric
	CAS # 108-21-4 (Lot BCBZ4645)		+/- 497.3155 µg/mL	Unstressed
	Purity 99%		+/- 509.6785 µg/mL	Stressed
5	Propyl acetate	10,016.0 µg/mL	+/- 58.7795 µg/mL	Gravimetric
	CAS # 109-60-4 (Lot ZJZVG)		+/- 495.5344 µg/mL	Unstressed
	Purity 99%		+/- 507.8531 µg/mL	Stressed
6	Butyl acetate	10,074.0 µg/mL	+/- 59.1199 µg/mL	Gravimetric
	CAS # 123-86-4 (Lot SHBL9111)		+/- 498.4039 µg/mL	Unstressed
	Purity 99%		+/- 510.7940 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

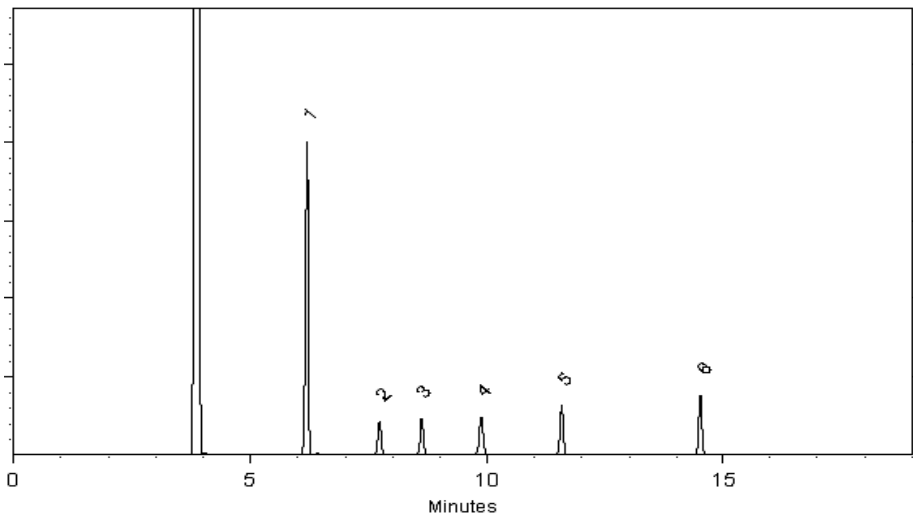
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 21-Apr-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 23-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Reagent

MSV_ACROLEIN_00019

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	12926800
DATE CERTIFIED	02/03/22
EXPIRATION DATE	02/28/23
CAS NUMBER	107-02-8
MOLECULAR FORMULA	C3H4O
MOLECULAR WEIGHT	56.06
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
NOTES	Contains water and hydroquinone as an inhibitor.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
% PURITY (GC/TCD)	93.2
% WATER (KARL FISCHER)	2.2

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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info@chemservice.com • www.chemservice.com

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell
CSM/TC

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0222\SIG2022990.D

Sample name: Acrolein

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	2/3/2022 2:54:32 PM	**Location:**	Vial 1
Acq. method:	GASBOMB_TCD.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.600	BB	0.0362	14.5715	6.2387	4.5336
2.902	BB	0.0314	7.2404	3.5582	2.2527
4.046	BB	0.0349	299.5987	134.6697	93.2137
		Sum	321.4106		

Reagent

MSV_ACROLEIN_00020

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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	12926800
DATE CERTIFIED	02/03/22
EXPIRATION DATE	02/28/23
CAS NUMBER	107-02-8
MOLECULAR FORMULA	C3H4O
MOLECULAR WEIGHT	56.06
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
NOTES	Contains water and hydroquinone as an inhibitor.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
% PURITY (GC/TCD)	93.2
% WATER (KARL FISCHER)	2.2

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0222\SIG2022990.D

Sample name: Acrolein

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	2/3/2022 2:54:32 PM	**Location:**	Vial 1
Acq. method:	GASBOMB_TCD.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.600	BB	0.0362	14.5715	6.2387	4.5336
2.902	BB	0.0314	7.2404	3.5582	2.2527
4.046	BB	0.0349	299.5987	134.6697	93.2137
		Sum	321.4106		

Reagent

MSV_c14dcb_Nt_00003

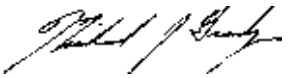
SIGMA-ALDRICH®
sigma-aldrich.com
3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
cis-1,4-Dichloro-2-butene - 95%

Product Number:	**195707**
Batch Number:	**SHBH4584V**
Brand:	ALDRICH
CAS Number:	1476-11-5
MDL Number:	MFCD00062950
Formula:	C4H6Cl2
Formula Weight:	125.00 g/mol
Storage Temperature:	Store at 2 - 8 °C
Quality Release Date:	30 AUG 2016

Test	Specification	Result
Appearance (Color)	Colorless to Light Yellow	Very Faint Yellow
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 94.5 %	98.0 %



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

Reagent

MSV_CCV_GASES_00221

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488 **Lot No.:** A0172364

Description : Custom Gases Standard

Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,001.0 µg/mL	+/- 15.5104 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 112.6642 µg/mL	Unstressed
	Purity 99%		+/- 115.2788 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.2 µg/mL	+/- 19.3792 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.2161 µg/mL	Unstressed
	Purity 99%		+/- 115.8161 µg/mL	Stressed
3	Vinyl chloride	2,003.2 µg/mL	+/- 20.1104 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.5093 µg/mL	Unstressed
	Purity 99%		+/- 116.1105 µg/mL	Stressed
4	1,3-Butadiene	1,999.6 µg/mL	+/- 14.5225 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 112.4545 µg/mL	Unstressed
	Purity 99%		+/- 115.0702 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,002.8 µg/mL	+/- 14.8201 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.6669 µg/mL	Unstressed
	Purity 99%		+/- 115.2859 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.9955 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.5912 µg/mL	Unstressed
	Purity 99%		+/- 115.2073 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 11778600)		+/- 112.1380 µg/mL	Unstressed
	Purity 99%		+/- 114.7619 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	112.1380	µg/mL	Unstressed
	Purity 99%				+/-	114.7619	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,000.2	µg/mL	+/-	17.2773	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	112.8726	µg/mL	Unstressed
	Purity 99%				+/-	115.4802	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

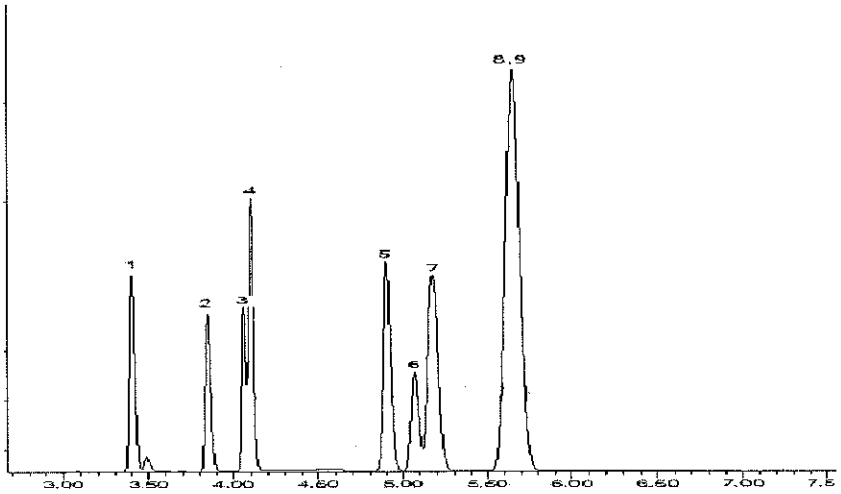
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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Tom Suckar - Mix Technician

Date Mixed: 13-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Reagent

MSV_CCV_GASES_00250

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www.restek.com

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Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

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Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

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	CAS # 75-71-8 (Lot 00012554)		+/- 112.6642 µg/mL	Unstressed
	Purity 99%		+/- 115.2788 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.2 µg/mL	+/- 19.3792 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.2161 µg/mL	Unstressed
	Purity 99%		+/- 115.8161 µg/mL	Stressed
3	Vinyl chloride	2,003.2 µg/mL	+/- 20.1104 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.5093 µg/mL	Unstressed
	Purity 99%		+/- 116.1105 µg/mL	Stressed
4	1,3-Butadiene	1,999.6 µg/mL	+/- 14.5225 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 112.4545 µg/mL	Unstressed
	Purity 99%		+/- 115.0702 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,002.8 µg/mL	+/- 14.8201 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.6669 µg/mL	Unstressed
	Purity 99%		+/- 115.2859 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.9955 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.5912 µg/mL	Unstressed
	Purity 99%		+/- 115.2073 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 11778600)		+/- 112.1380 µg/mL	Unstressed
	Purity 99%		+/- 114.7619 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	112.1380	µg/mL	Unstressed
	Purity 99%				+/-	114.7619	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,000.2	µg/mL	+/-	17.2773	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	112.8726	µg/mL	Unstressed
	Purity 99%				+/-	115.4802	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

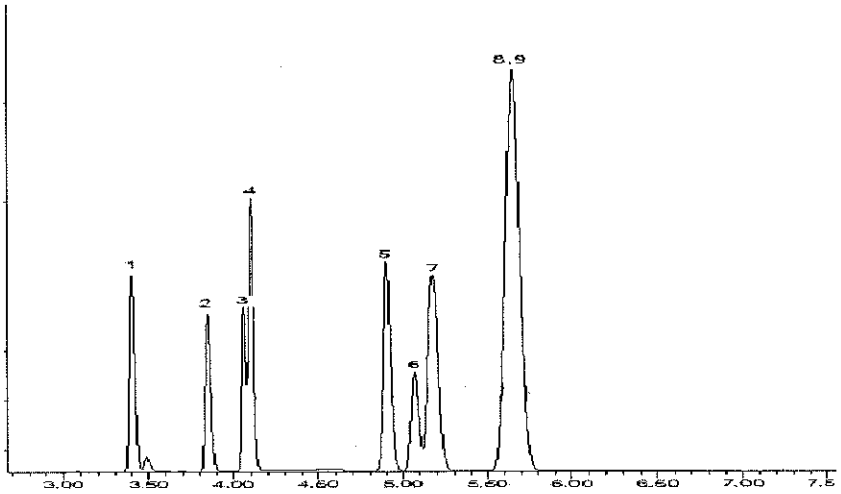
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 13-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488 **Lot No.:** A0172364

Description : Custom Gases Standard

Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,001.0 µg/mL	+/- 15.5104 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 112.6642 µg/mL	Unstressed
	Purity 99%		+/- 115.2788 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.2 µg/mL	+/- 19.3792 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.2161 µg/mL	Unstressed
	Purity 99%		+/- 115.8161 µg/mL	Stressed
3	Vinyl chloride	2,003.2 µg/mL	+/- 20.1104 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.5093 µg/mL	Unstressed
	Purity 99%		+/- 116.1105 µg/mL	Stressed
4	1,3-Butadiene	1,999.6 µg/mL	+/- 14.5225 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 112.4545 µg/mL	Unstressed
	Purity 99%		+/- 115.0702 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,002.8 µg/mL	+/- 14.8201 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.6669 µg/mL	Unstressed
	Purity 99%		+/- 115.2859 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.9955 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.5912 µg/mL	Unstressed
	Purity 99%		+/- 115.2073 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 11778600)		+/- 112.1380 µg/mL	Unstressed
	Purity 99%		+/- 114.7619 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	112.1380	µg/mL	Unstressed
	Purity 99%				+/-	114.7619	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,000.2	µg/mL	+/-	17.2773	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	112.8726	µg/mL	Unstressed
	Purity 99%				+/-	115.4802	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

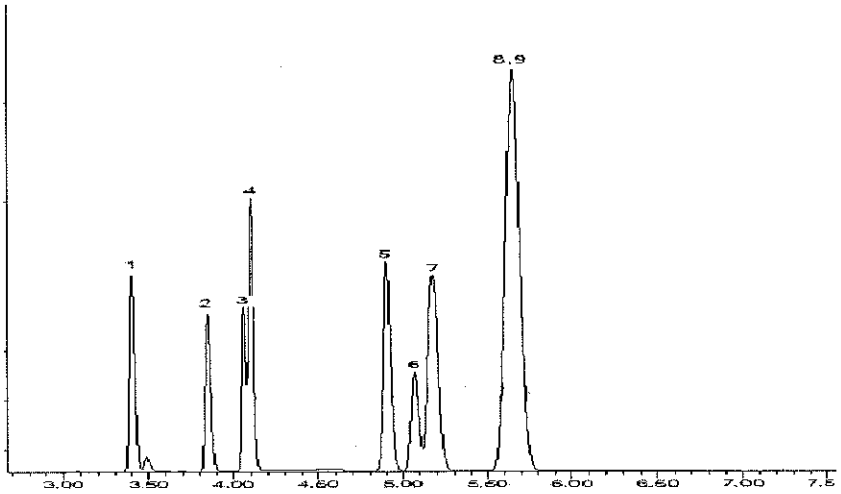
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 13-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488 **Lot No.:** A0172364

Description : Custom Gases Standard

Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,001.0 µg/mL	+/- 15.5104 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 112.6642 µg/mL	Unstressed
	Purity 99%		+/- 115.2788 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.2 µg/mL	+/- 19.3792 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.2161 µg/mL	Unstressed
	Purity 99%		+/- 115.8161 µg/mL	Stressed
3	Vinyl chloride	2,003.2 µg/mL	+/- 20.1104 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.5093 µg/mL	Unstressed
	Purity 99%		+/- 116.1105 µg/mL	Stressed
4	1,3-Butadiene	1,999.6 µg/mL	+/- 14.5225 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 112.4545 µg/mL	Unstressed
	Purity 99%		+/- 115.0702 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,002.8 µg/mL	+/- 14.8201 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.6669 µg/mL	Unstressed
	Purity 99%		+/- 115.2859 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.9955 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.5912 µg/mL	Unstressed
	Purity 99%		+/- 115.2073 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 11778600)		+/- 112.1380 µg/mL	Unstressed
	Purity 99%		+/- 114.7619 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	112.1380	µg/mL	Unstressed
	Purity 99%				+/-	114.7619	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,000.2	µg/mL	+/-	17.2773	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	112.8726	µg/mL	Unstressed
	Purity 99%				+/-	115.4802	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

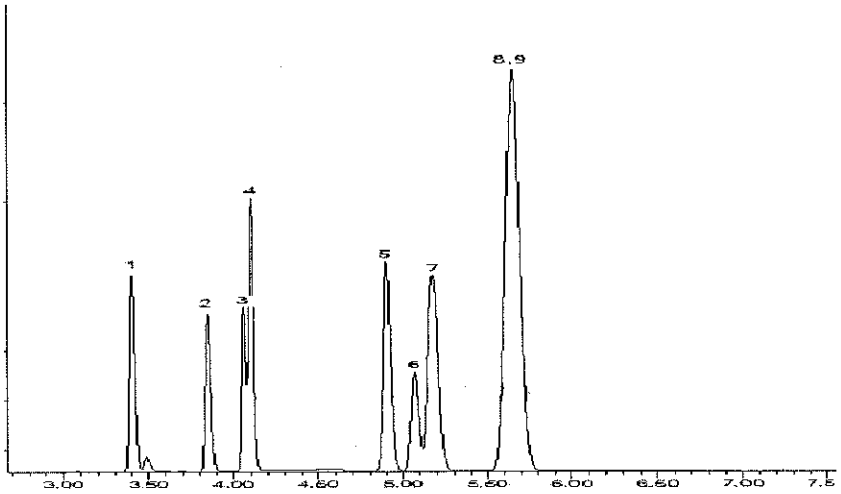
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 13-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 558267 **Lot No.:** A0179696

Description : Custom 8260A IS Mix

Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methyl-2-propanol-d10	12,510.0 µg/mL	+/- 73.4157 µg/mL	Gravimetric
	CAS # 53001-22-2 (Lot PR-29961)		+/- 268.0265 µg/mL	Unstressed
	Purity 99%		+/- 275.8078 µg/mL	Stressed
2	Fluorobenzene	2,502.0 µg/mL	+/- 14.8611 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 53.6543 µg/mL	Unstressed
	Purity 99%		+/- 55.2092 µg/mL	Stressed
3	Chlorobenzene-d5	2,512.0 µg/mL	+/- 14.9205 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 53.8688 µg/mL	Unstressed
	Purity 99%		+/- 55.4299 µg/mL	Stressed
4	1,4-Dichlorobenzene-d4	2,512.0 µg/mL	+/- 14.9205 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 53.8688 µg/mL	Unstressed
	Purity 99%		+/- 55.4299 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

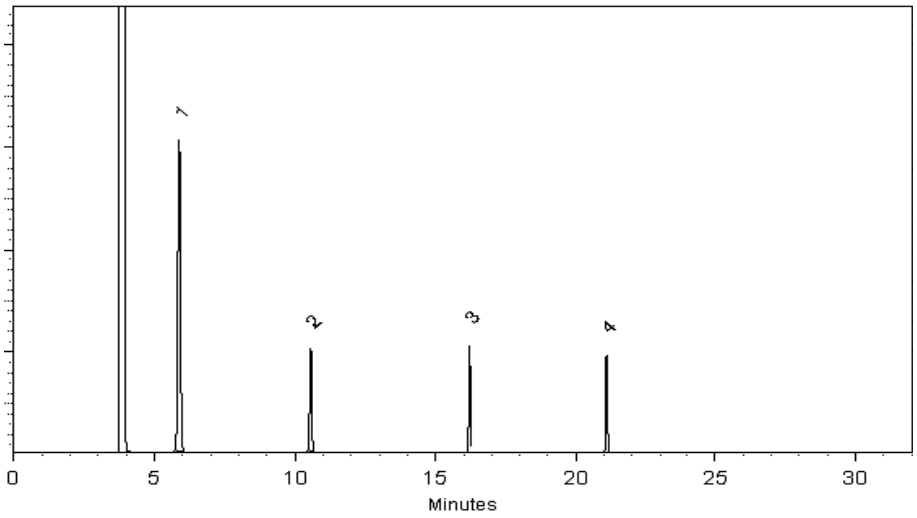
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 17-Dec-2021 **Balance:** B442140311

Clara Windle - Operations Technician I

Date Passed: 28-Dec-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_Cus826_IS_00468

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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 558267 **Lot No.:** A0184225

Description : Custom 8260A IS Mix

Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methyl-2-propanol-d10	12,506.0 µg/mL	+/- 73.2254 µg/mL	Gravimetric
	CAS # 53001-22-2 (Lot PR-29961)		+/- 267.8951 µg/mL	Unstressed
	Purity 99%		+/- 275.6752 µg/mL	Stressed
2	Fluorobenzene	2,521.5 µg/mL	+/- 14.7976 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 54.0231 µg/mL	Unstressed
	Purity 99%		+/- 55.5915 µg/mL	Stressed
3	Chlorobenzene-d5	2,521.0 µg/mL	+/- 14.7946 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 54.0124 µg/mL	Unstressed
	Purity 99%		+/- 55.5805 µg/mL	Stressed
4	1,4-Dichlorobenzene-d4	2,522.5 µg/mL	+/- 14.8034 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 54.0445 µg/mL	Unstressed
	Purity 99%		+/- 55.6135 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

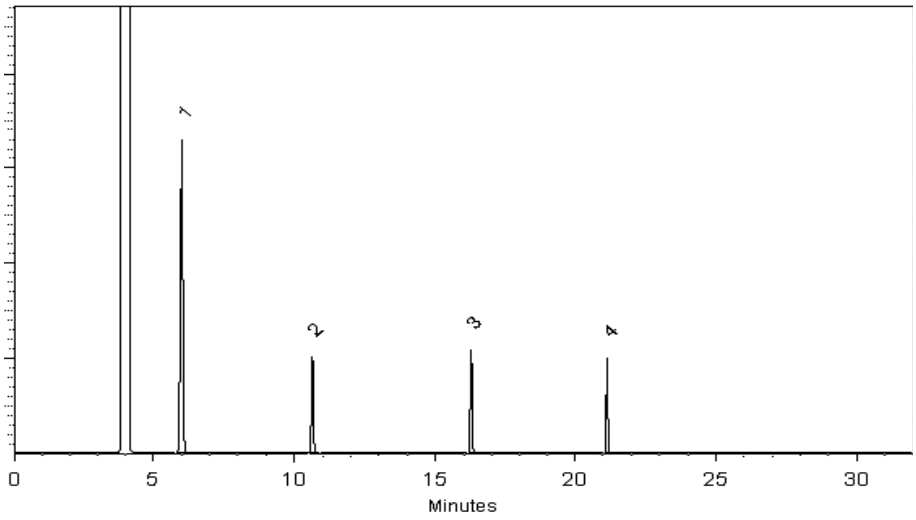
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Nick Yaw - Operations Tech I

Date Mixed: 18-Apr-2022 **Balance:** 1127510105

Christie Mills - Operations Technician II

Date Passed: 21-Apr-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 558267 **Lot No.:** A0184225

Description : Custom 8260A IS Mix

Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methyl-2-propanol-d10	12,506.0 µg/mL	+/- 73.2254 µg/mL	Gravimetric
	CAS # 53001-22-2 (Lot PR-29961)		+/- 267.8951 µg/mL	Unstressed
	Purity 99%		+/- 275.6752 µg/mL	Stressed
2	Fluorobenzene	2,521.5 µg/mL	+/- 14.7976 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 54.0231 µg/mL	Unstressed
	Purity 99%		+/- 55.5915 µg/mL	Stressed
3	Chlorobenzene-d5	2,521.0 µg/mL	+/- 14.7946 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 54.0124 µg/mL	Unstressed
	Purity 99%		+/- 55.5805 µg/mL	Stressed
4	1,4-Dichlorobenzene-d4	2,522.5 µg/mL	+/- 14.8034 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 54.0445 µg/mL	Unstressed
	Purity 99%		+/- 55.6135 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

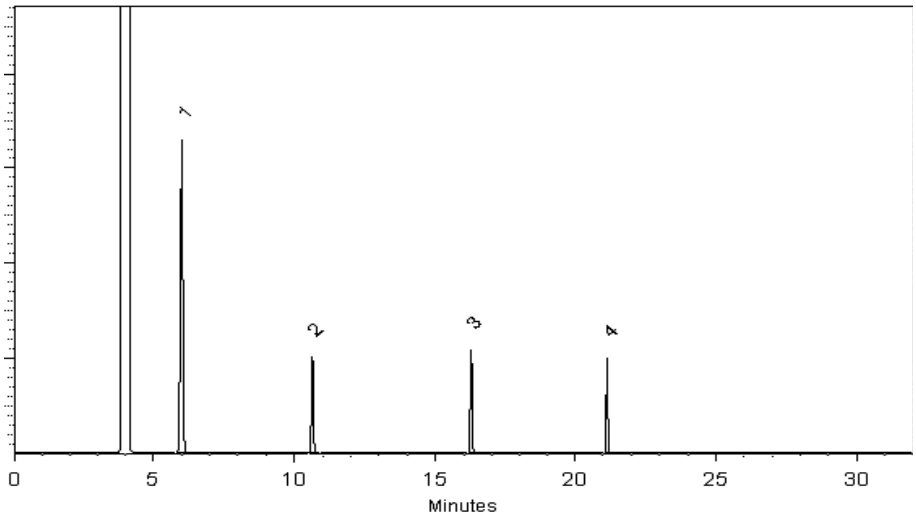
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Nick Yaw - Operations Tech I

Date Mixed: 18-Apr-2022 **Balance:** 1127510105

Christie Mills - Operations Technician II

Date Passed: 21-Apr-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_CYC_00007

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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Cyclohexanone

CATALOG NUMBER	N-11531-1G
LOT NUMBER	12628400
DATE CERTIFIED	05/15/18
EXPIRATION DATE	05/31/23
CAS NUMBER	108-94-1
MOLECULAR FORMULA	C6H10O
MOLECULAR WEIGHT	98.16
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
PHYSICAL APPEARANCE	COLORLESS LIQUID

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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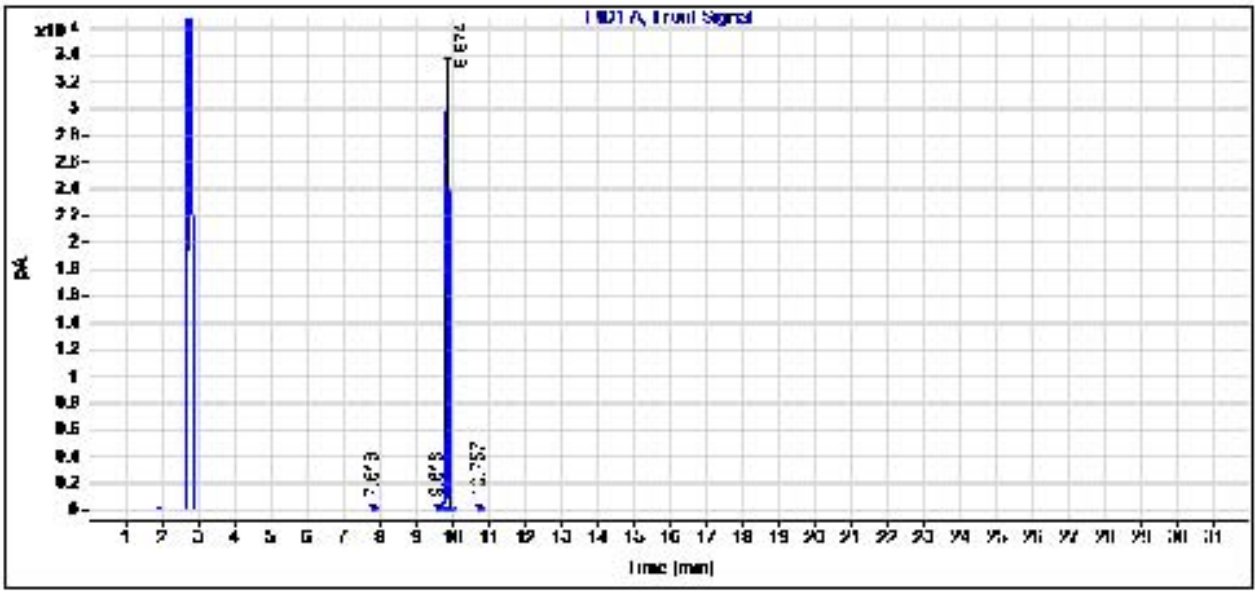
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2018 DATA\0518\SIG1010143.D

Sample name: N-11531/ACETONE

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	5/15/2018 8:14:17 AM	**Location:**	Vial 1
Acq. method:	MIX1.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
7.818	BB	0.0567	12.4787	2.6631	0.0090
9.616	BB	0.0420	22.9558	6.9935	0.0165
9.874	BB S	0.0575	138838.7188	33378.9727	99.9600
10.757	BB	0.0524	20.1641	4.8068	0.0145
		Sum	138894.3173		

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.

PJLA Testing

PJLA Reference Material Producer

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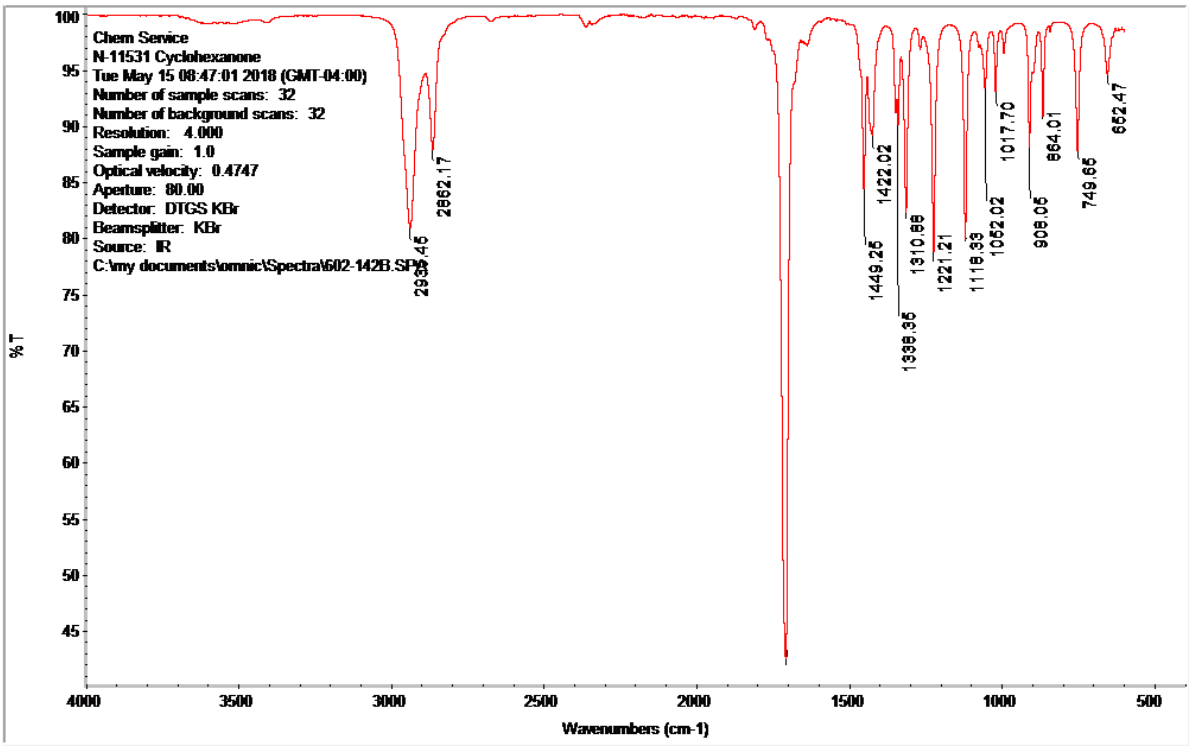
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-11531-1G
Description: Cyclohexanone
Lot Number: 12628400
Expiration Date: 05/31/23



Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.

PJLA Testing

PJLA Reference Material Producer

Reagent

MSV_DME_00041

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 72297
Lot Number: 081920
Description: Methyl ether
[Dimethyl ether]
Expiration Date: 081925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 23060

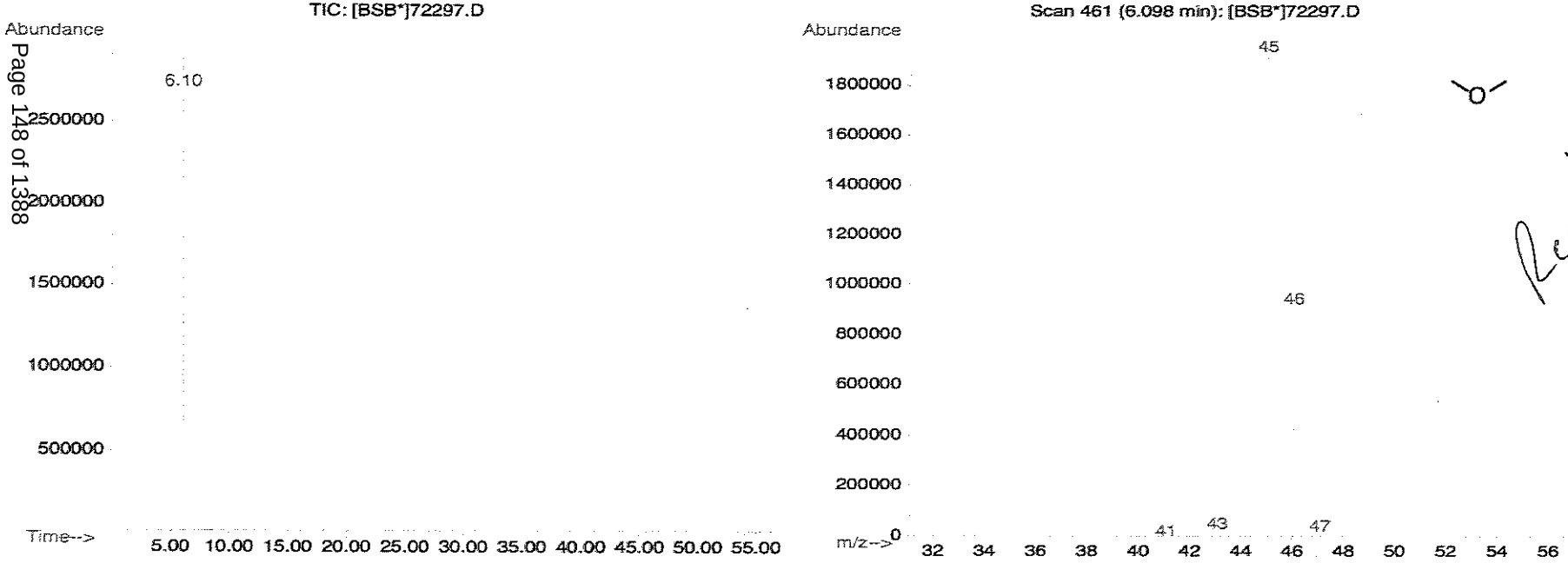
Solvent(s): **Lot#**
Methanol DX932-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

	081920
Formulated By: Vincent K. Criscio, Jr.	DATE
	081920
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Methyl ether	2297	00225LO	1000	99	0.2	0.10101	0.1020	1009.8	4.2	115-10-6	N/A	N/A

Method: GC6GAS. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1=35°C (9 min.), Temp. 2=200°C (1 min.), Rate=33°C/min., Injector Temp.=200°C, Detector Temp.=200°C. **Analyst:** Candice Warren.



Rec'd 9/8/2020

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSV_EE_Neat_00007

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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Ethyl ether

CATALOG NUMBER	N-11897-1G
LOT NUMBER	12123300
DATE CERTIFIED	12/04/20
EXPIRATION DATE	12/31/25
CAS NUMBER	60-29-7
MOLECULAR FORMULA	C4H10O
MOLECULAR WEIGHT	74.12
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/TCD)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

COA Form
Revision 3 (3/2015)

PJLA Testing
Accreditation #63520

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CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\1220\SIG2022771.D

Sample name: Ethylether

Instrument: GC 1
Injection date: 12/4/2020 10:52:03 AM
Acq. method: TCD SCREEN.M
Column name: DB-624 (30m x 0.53mm x 3.0um)

Sample type: Sample
Location: Vial 21
Injection volume: 1.0uL

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.206	BB	0.0364	16.2548	6.6698	0.0305
1.560	BB	0.0278	55.8996	29.9782	0.1049
1.892	BB	0.0328	64.6527	28.1084	0.1214
2.224	BB	0.0347	9.6188	4.3673	0.0181
2.545	BB S	0.0880	53125.6797	7942.5742	99.7251
		Sum	53272.1055		

PJLA Testing

Reagent

MSV_M_MIX1SEC_00076

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577493 **Lot No.:** A0171815

Description : Custom VOC MegaMix®.SEC #1 Standard

Custom VOC MegaMix®.SEC #1 Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 7.1628 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.4323 µg/mL	Unstressed
	Purity 99%		+/- 57.7457 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 7.1486 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.3199 µg/mL	Unstressed
	Purity 99%		+/- 57.6306 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 7.1382 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.2383 µg/mL	Unstressed
	Purity 99%		+/- 57.5472 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 7.1503 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.3339 µg/mL	Unstressed
	Purity 99%		+/- 57.6450 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 7.1026 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.2188 µg/mL	Unstressed
	Purity 98%		+/- 57.5274 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 7.1028 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.2207 µg/mL	Unstressed
	Purity 99%		+/- 57.5294 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 7.1414 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.2636 µg/mL	Unstressed
	Purity 99%		+/- 57.5731 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	7.1383	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.2391	µg/mL	Unstressed
	Purity 98%				+/-	57.5479	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	7.1204	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.3597	µg/mL	Unstressed
	Purity 95%				+/-	57.6716	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	7.1414	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.2636	µg/mL	Unstressed
	Purity 99%				+/-	57.5731	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	7.1407	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.2576	µg/mL	Unstressed
	Purity 99%				+/-	57.5669	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	7.1423	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.2708	µg/mL	Unstressed
	Purity 99%				+/-	57.5804	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	7.1371	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.2293	µg/mL	Unstressed
	Purity 99%				+/-	57.5380	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	7.1418	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.2662	µg/mL	Unstressed
	Purity 99%				+/-	57.5757	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	7.1425	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.2723	µg/mL	Unstressed
	Purity 98%				+/-	57.5819	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	7.1513	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3417	µg/mL	Unstressed
	Purity 96%				+/-	57.6530	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	7.1450	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.2917	µg/mL	Unstressed
	Purity 99%				+/-	57.6018	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	7.1378	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.2350	µg/mL	Unstressed
	Purity 99%				+/-	57.5437	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	7.1396	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.2489	µg/mL	Unstressed
	Purity 97%				+/-	57.5580	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	7.1460	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.2995	µg/mL	Unstressed
	Purity 99%				+/-	57.6098	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	7.1485	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.3193	µg/mL	Unstressed
	Purity 99%				+/-	57.6300	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	7.1478	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.3139	µg/mL	Unstressed
	Purity 98%				+/-	57.6245	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	7.1034	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2256	µg/mL	Unstressed
	Purity 99%				+/-	57.5344	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	7.1030	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.2221	µg/mL	Unstressed
	Purity 99%				+/-	57.5308	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	7.1365	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.2251	µg/mL	Unstressed
	Purity 99%				+/-	57.5337	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	7.1538	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.3612	µg/mL	Unstressed
	Purity 99%				+/-	57.6729	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	7.1475	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.3114	µg/mL	Unstressed
	Purity 99%				+/-	57.6220	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	7.1079	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.2614	µg/mL	Unstressed
	Purity 97%				+/-	57.5709	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	7.1076	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.2588	µg/mL	Unstressed
	Purity 98%				+/-	57.5683	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

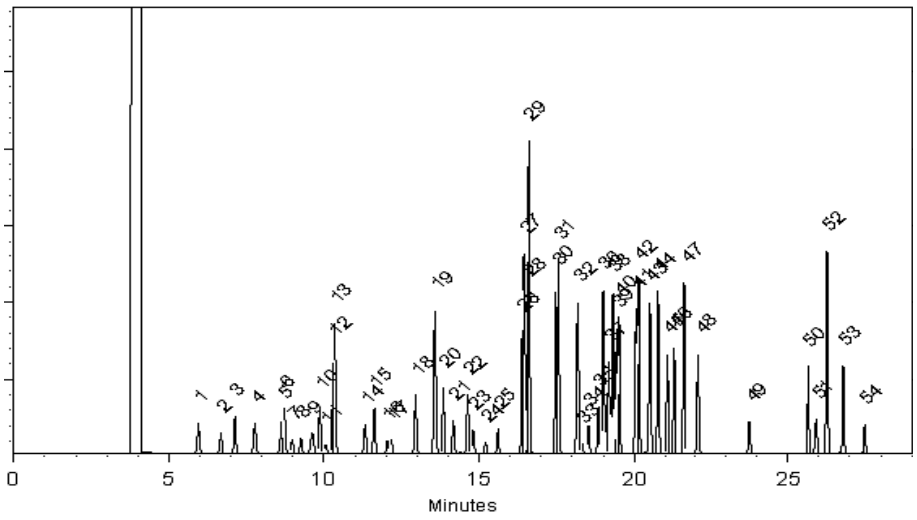
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 28-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_M_MIX1SEC_00082

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577493 **Lot No.:** A0171815

Description : Custom VOC MegaMix®.SEC #1 Standard

Custom VOC MegaMix®.SEC #1 Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 9201700) **Purity** 99%	1,003.8 µg/mL	+/- 7.1628 µg/mL +/- 56.4323 µg/mL +/- 57.7457 µg/mL	Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%	1,001.8 µg/mL	+/- 7.1486 µg/mL +/- 56.3199 µg/mL +/- 57.6306 µg/mL	Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 99%	1,000.3 µg/mL	+/- 7.1382 µg/mL +/- 56.2383 µg/mL +/- 57.5472 µg/mL	Gravimetric Unstressed Stressed
4	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 7482000) **Purity** 99%	1,002.0 µg/mL	+/- 7.1503 µg/mL +/- 56.3339 µg/mL +/- 57.6450 µg/mL	Gravimetric Unstressed Stressed
5	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%	1,000.0 µg/mL	+/- 7.1026 µg/mL +/- 56.2188 µg/mL +/- 57.5274 µg/mL	Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot YZO5O) **Purity** 99%	1,000.1 µg/mL	+/- 7.1028 µg/mL +/- 56.2207 µg/mL +/- 57.5294 µg/mL	Gravimetric Unstressed Stressed
7	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%	1,000.8 µg/mL	+/- 7.1414 µg/mL +/- 56.2636 µg/mL +/- 57.5731 µg/mL	Gravimetric Unstressed Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	7.1383	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.2391	µg/mL	Unstressed
	Purity 98%				+/-	57.5479	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	7.1204	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.3597	µg/mL	Unstressed
	Purity 95%				+/-	57.6716	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	7.1414	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.2636	µg/mL	Unstressed
	Purity 99%				+/-	57.5731	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	7.1407	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.2576	µg/mL	Unstressed
	Purity 99%				+/-	57.5669	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	7.1423	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.2708	µg/mL	Unstressed
	Purity 99%				+/-	57.5804	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	7.1371	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.2293	µg/mL	Unstressed
	Purity 99%				+/-	57.5380	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	7.1418	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.2662	µg/mL	Unstressed
	Purity 99%				+/-	57.5757	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	7.1425	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.2723	µg/mL	Unstressed
	Purity 98%				+/-	57.5819	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	7.1513	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3417	µg/mL	Unstressed
	Purity 96%				+/-	57.6530	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	7.1450	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.2917	µg/mL	Unstressed
	Purity 99%				+/-	57.6018	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	7.1378	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.2350	µg/mL	Unstressed
	Purity 99%				+/-	57.5437	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	7.1396	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.2489	µg/mL	Unstressed
	Purity 97%				+/-	57.5580	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	7.1460	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.2995	µg/mL	Unstressed
	Purity 99%				+/-	57.6098	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	7.1485	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.3193	µg/mL	Unstressed
	Purity 99%				+/-	57.6300	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	7.1478	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.3139	µg/mL	Unstressed
	Purity 98%				+/-	57.6245	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	7.1034	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2256	µg/mL	Unstressed
	Purity 99%				+/-	57.5344	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	7.1030	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.2221	µg/mL	Unstressed
	Purity 99%				+/-	57.5308	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	7.1365	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.2251	µg/mL	Unstressed
	Purity 99%				+/-	57.5337	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	7.1538	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.3612	µg/mL	Unstressed
	Purity 99%				+/-	57.6729	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	7.1475	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.3114	µg/mL	Unstressed
	Purity 99%				+/-	57.6220	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	7.1079	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.2614	µg/mL	Unstressed
	Purity 97%				+/-	57.5709	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	7.1076	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.2588	µg/mL	Unstressed
	Purity 98%				+/-	57.5683	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

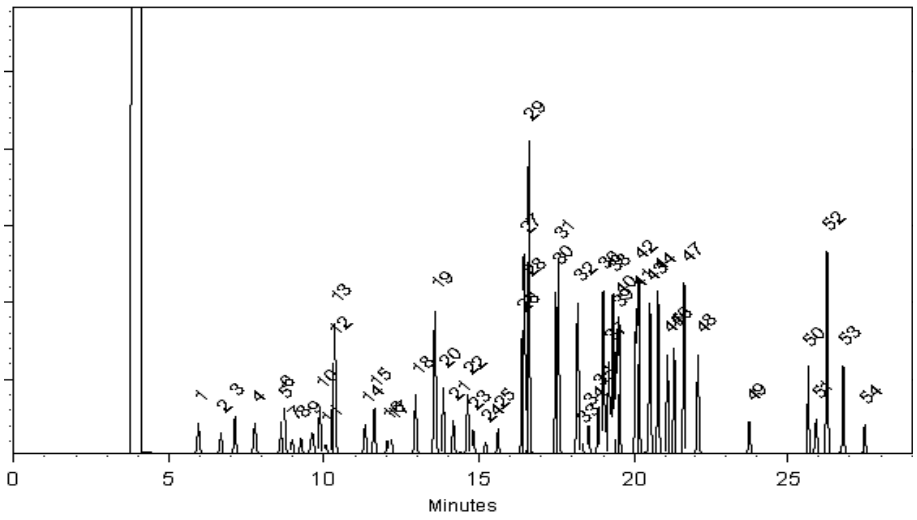
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 28-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_M_MIX1SEC_00083

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577493 **Lot No.:** A0171815

Description : Custom VOC MegaMix®.SEC #1 Standard

Custom VOC MegaMix®.SEC #1 Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 9201700) **Purity** 99%	1,003.8 µg/mL	+/- 7.1628 µg/mL +/- 56.4323 µg/mL +/- 57.7457 µg/mL	Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%	1,001.8 µg/mL	+/- 7.1486 µg/mL +/- 56.3199 µg/mL +/- 57.6306 µg/mL	Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 99%	1,000.3 µg/mL	+/- 7.1382 µg/mL +/- 56.2383 µg/mL +/- 57.5472 µg/mL	Gravimetric Unstressed Stressed
4	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 7482000) **Purity** 99%	1,002.0 µg/mL	+/- 7.1503 µg/mL +/- 56.3339 µg/mL +/- 57.6450 µg/mL	Gravimetric Unstressed Stressed
5	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%	1,000.0 µg/mL	+/- 7.1026 µg/mL +/- 56.2188 µg/mL +/- 57.5274 µg/mL	Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot YZO5O) **Purity** 99%	1,000.1 µg/mL	+/- 7.1028 µg/mL +/- 56.2207 µg/mL +/- 57.5294 µg/mL	Gravimetric Unstressed Stressed
7	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%	1,000.8 µg/mL	+/- 7.1414 µg/mL +/- 56.2636 µg/mL +/- 57.5731 µg/mL	Gravimetric Unstressed Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	7.1383	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.2391	µg/mL	Unstressed
	Purity 98%				+/-	57.5479	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	7.1204	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.3597	µg/mL	Unstressed
	Purity 95%				+/-	57.6716	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	7.1414	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.2636	µg/mL	Unstressed
	Purity 99%				+/-	57.5731	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	7.1407	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.2576	µg/mL	Unstressed
	Purity 99%				+/-	57.5669	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	7.1423	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.2708	µg/mL	Unstressed
	Purity 99%				+/-	57.5804	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	7.1371	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.2293	µg/mL	Unstressed
	Purity 99%				+/-	57.5380	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	7.1418	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.2662	µg/mL	Unstressed
	Purity 99%				+/-	57.5757	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	7.1425	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.2723	µg/mL	Unstressed
	Purity 98%				+/-	57.5819	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	7.1513	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3417	µg/mL	Unstressed
	Purity 96%				+/-	57.6530	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	7.1450	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.2917	µg/mL	Unstressed
	Purity 99%				+/-	57.6018	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	7.1378	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.2350	µg/mL	Unstressed
	Purity 99%				+/-	57.5437	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	7.1396	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.2489	µg/mL	Unstressed
	Purity 97%				+/-	57.5580	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	7.1460	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.2995	µg/mL	Unstressed
	Purity 99%				+/-	57.6098	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	7.1485	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.3193	µg/mL	Unstressed
	Purity 99%				+/-	57.6300	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	7.1478	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.3139	µg/mL	Unstressed
	Purity 98%				+/-	57.6245	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	7.1034	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2256	µg/mL	Unstressed
	Purity 99%				+/-	57.5344	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	7.1030	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.2221	µg/mL	Unstressed
	Purity 99%				+/-	57.5308	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	7.1365	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.2251	µg/mL	Unstressed
	Purity 99%				+/-	57.5337	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	7.1538	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.3612	µg/mL	Unstressed
	Purity 99%				+/-	57.6729	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	7.1475	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.3114	µg/mL	Unstressed
	Purity 99%				+/-	57.6220	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	7.1079	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.2614	µg/mL	Unstressed
	Purity 97%				+/-	57.5709	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	7.1076	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.2588	µg/mL	Unstressed
	Purity 98%				+/-	57.5683	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

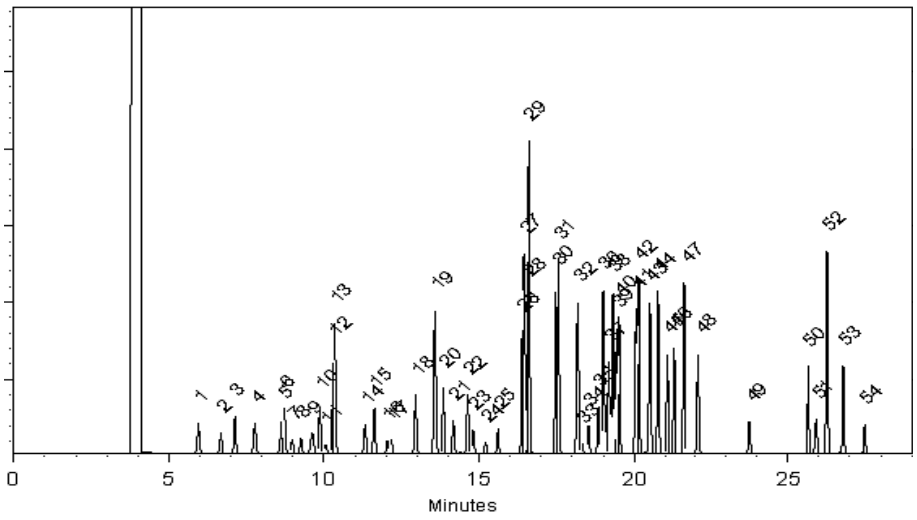
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 28-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_M_MIX1SEC_00084

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577493 **Lot No.:** A0171815

Description : Custom VOC MegaMix®.SEC #1 Standard

Custom VOC MegaMix®.SEC #1 Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 7.1628 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.4323 µg/mL	Unstressed
	Purity 99%		+/- 57.7457 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 7.1486 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.3199 µg/mL	Unstressed
	Purity 99%		+/- 57.6306 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 7.1382 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.2383 µg/mL	Unstressed
	Purity 99%		+/- 57.5472 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 7.1503 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.3339 µg/mL	Unstressed
	Purity 99%		+/- 57.6450 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 7.1026 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.2188 µg/mL	Unstressed
	Purity 98%		+/- 57.5274 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 7.1028 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.2207 µg/mL	Unstressed
	Purity 99%		+/- 57.5294 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 7.1414 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.2636 µg/mL	Unstressed
	Purity 99%		+/- 57.5731 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	7.1383	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.2391	µg/mL	Unstressed
	Purity 98%				+/-	57.5479	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	7.1204	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.3597	µg/mL	Unstressed
	Purity 95%				+/-	57.6716	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	7.1414	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.2636	µg/mL	Unstressed
	Purity 99%				+/-	57.5731	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	7.1407	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.2576	µg/mL	Unstressed
	Purity 99%				+/-	57.5669	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	7.1423	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.2708	µg/mL	Unstressed
	Purity 99%				+/-	57.5804	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	7.1371	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.2293	µg/mL	Unstressed
	Purity 99%				+/-	57.5380	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	7.1418	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.2662	µg/mL	Unstressed
	Purity 99%				+/-	57.5757	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	7.1425	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.2723	µg/mL	Unstressed
	Purity 98%				+/-	57.5819	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	7.1513	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3417	µg/mL	Unstressed
	Purity 96%				+/-	57.6530	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	7.1450	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.2917	µg/mL	Unstressed
	Purity 99%				+/-	57.6018	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	7.1378	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.2350	µg/mL	Unstressed
	Purity 99%				+/-	57.5437	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	7.1396	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.2489	µg/mL	Unstressed
	Purity 97%				+/-	57.5580	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	7.1460	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.2995	µg/mL	Unstressed
	Purity 99%				+/-	57.6098	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	7.1485	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.3193	µg/mL	Unstressed
	Purity 99%				+/-	57.6300	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	7.1478	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.3139	µg/mL	Unstressed
	Purity 98%				+/-	57.6245	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	7.1034	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2256	µg/mL	Unstressed
	Purity 99%				+/-	57.5344	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	7.1030	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.2221	µg/mL	Unstressed
	Purity 99%				+/-	57.5308	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	7.1365	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.2251	µg/mL	Unstressed
	Purity 99%				+/-	57.5337	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	7.1538	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.3612	µg/mL	Unstressed
	Purity 99%				+/-	57.6729	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	7.1475	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.3114	µg/mL	Unstressed
	Purity 99%				+/-	57.6220	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	7.1079	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.2614	µg/mL	Unstressed
	Purity 97%				+/-	57.5709	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	7.1076	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.2588	µg/mL	Unstressed
	Purity 98%				+/-	57.5683	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

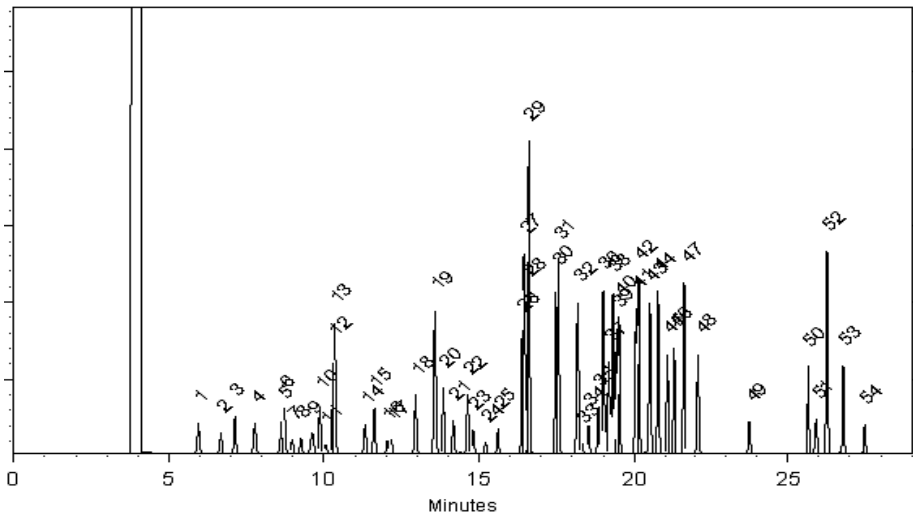
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 28-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_M_MIX2SEC_00073

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577494 **Lot No.:** A0171837

Description : Custom VOC MegaMix®.SEC #2 Standard

Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
2	2-Propanol (isopropanol)	7,501.5 µg/mL	+/- 43.9229 µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot TFT5I)		+/- 371.1195 µg/mL	Unstressed
	Purity 99%		+/- 380.3459 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
4	tert-Butanol (TBA)	10,001.0 µg/mL	+/- 58.5581 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot 5REPK)		+/- 494.7765 µg/mL	Unstressed
	Purity 99%		+/- 507.0771 µg/mL	Stressed
5	Methyl acetate	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot YDGVD)		+/- 49.5980 µg/mL	Unstressed
	Purity 99%		+/- 50.8309 µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,001.5 µg/mL	+/- 5.8774 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.5485 µg/mL	Unstressed
	Purity 99%		+/- 50.7802 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot H3HGC)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed

8	Carbon disulfide		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
9	Acrylonitrile		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
11	n-Hexane (C6)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6227	µg/mL	Unstressed
	Purity 99%				+/-	50.8563	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
15	Propionitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot N44LF)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
16	Methacrylonitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,001.0	µg/mL	+/-	146.3864	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,236.8670	µg/mL	Unstressed
	Purity 99%				+/-	1,267.6168	µg/mL	Stressed
18	Tetrahydrofuran		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
19	Cyclohexane		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
20	1-Butanol		50,004.5	µg/mL	+/-	292.7722	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot 6B6UL)			+/-	2,473.8558	µg/mL	Unstressed
	Purity 99%				+/-	2,535.3586	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 11010100)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
22	n-Heptane (C7)		1,002.5	µg/mL	+/-	5.8832	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.5980	µg/mL	Unstressed
	Purity 99%				+/-	50.8309	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed

24	Methylcyclohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
25	Methyl methacrylate		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
26	1,4-Dioxane		25,004.0	µg/mL	+/-	146.4039	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.0154	µg/mL	Unstressed
	Purity 99%				+/-	1,267.7689	µg/mL	Stressed
27	2-Nitropropane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
28	Ethyl methacrylate		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
29	1-Chlorohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,000.4	µg/mL	+/-	29.2781	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	247.3808	µg/mL	Unstressed
	Purity 97%				+/-	253.5310	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,001.1	µg/mL	+/-	5.8748	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.5272	µg/mL	Unstressed
	Purity 98%				+/-	50.7584	µg/mL	Stressed
32	1,3-Diethylbenzene		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.6474	µg/mL	Unstressed
	Purity 99%				+/-	50.8816	µg/mL	Stressed
33	Benzyl chloride		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
34	1,4-Diethylbenzene		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
35	1,2-Diethylbenzene		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
37	2-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

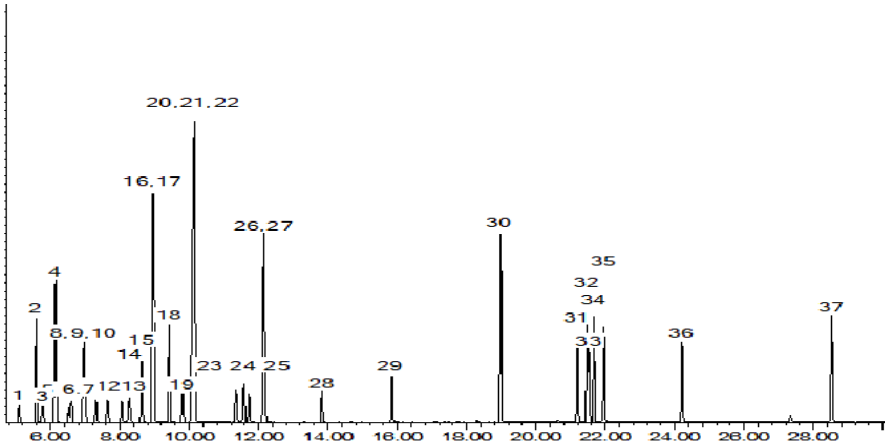
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Date Mixed: 28-Apr-2021 **Balance:** 1128353505

Alexis Shelow - Operations Tech I

Date Passed: 04-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_M_MIX2SEC_00081

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577494 **Lot No.:** A0171837

Description : Custom VOC MegaMix®.SEC #2 Standard

Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
2	2-Propanol (isopropanol)	7,501.5 µg/mL	+/- 43.9229 µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot TFT5I)		+/- 371.1195 µg/mL	Unstressed
	Purity 99%		+/- 380.3459 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
4	tert-Butanol (TBA)	10,001.0 µg/mL	+/- 58.5581 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot 5REPK)		+/- 494.7765 µg/mL	Unstressed
	Purity 99%		+/- 507.0771 µg/mL	Stressed
5	Methyl acetate	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot YDGVD)		+/- 49.5980 µg/mL	Unstressed
	Purity 99%		+/- 50.8309 µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,001.5 µg/mL	+/- 5.8774 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.5485 µg/mL	Unstressed
	Purity 99%		+/- 50.7802 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot H3HGC)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed

8	Carbon disulfide		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
9	Acrylonitrile		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
11	n-Hexane (C6)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6227	µg/mL	Unstressed
	Purity 99%				+/-	50.8563	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
15	Propionitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot N44LF)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
16	Methacrylonitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,001.0	µg/mL	+/-	146.3864	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,236.8670	µg/mL	Unstressed
	Purity 99%				+/-	1,267.6168	µg/mL	Stressed
18	Tetrahydrofuran		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
19	Cyclohexane		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
20	1-Butanol		50,004.5	µg/mL	+/-	292.7722	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot 6B6UL)			+/-	2,473.8558	µg/mL	Unstressed
	Purity 99%				+/-	2,535.3586	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 11010100)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
22	n-Heptane (C7)		1,002.5	µg/mL	+/-	5.8832	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.5980	µg/mL	Unstressed
	Purity 99%				+/-	50.8309	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed

24	Methylcyclohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
25	Methyl methacrylate		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
26	1,4-Dioxane		25,004.0	µg/mL	+/-	146.4039	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.0154	µg/mL	Unstressed
	Purity 99%				+/-	1,267.7689	µg/mL	Stressed
27	2-Nitropropane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
28	Ethyl methacrylate		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
29	1-Chlorohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,000.4	µg/mL	+/-	29.2781	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	247.3808	µg/mL	Unstressed
	Purity 97%				+/-	253.5310	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,001.1	µg/mL	+/-	5.8748	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.5272	µg/mL	Unstressed
	Purity 98%				+/-	50.7584	µg/mL	Stressed
32	1,3-Diethylbenzene		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.6474	µg/mL	Unstressed
	Purity 99%				+/-	50.8816	µg/mL	Stressed
33	Benzyl chloride		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
34	1,4-Diethylbenzene		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
35	1,2-Diethylbenzene		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
37	2-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

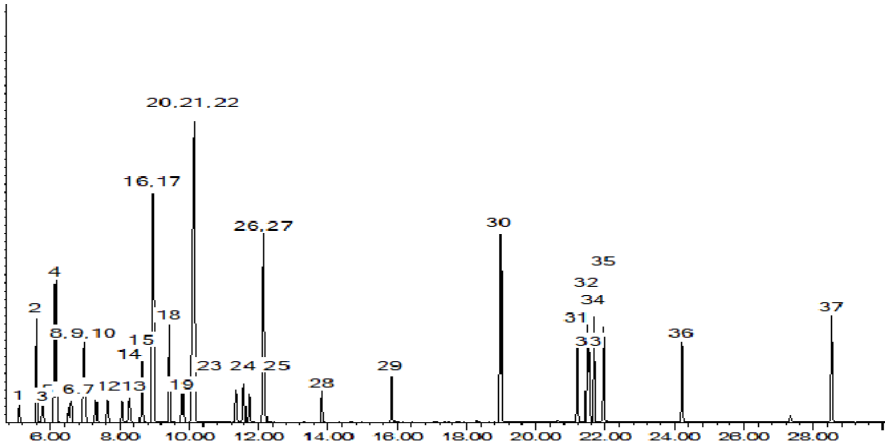
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 28-Apr-2021 **Balance:** 1128353505

Alexis Shelow - Operations Tech I

Date Passed: 04-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_M_MIX2SEC_00082

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577494 **Lot No.:** A0171837

Description : Custom VOC MegaMix®.SEC #2 Standard

Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
2	2-Propanol (isopropanol)	7,501.5 µg/mL	+/- 43.9229 µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot TFT5I)		+/- 371.1195 µg/mL	Unstressed
	Purity 99%		+/- 380.3459 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
4	tert-Butanol (TBA)	10,001.0 µg/mL	+/- 58.5581 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot 5REPK)		+/- 494.7765 µg/mL	Unstressed
	Purity 99%		+/- 507.0771 µg/mL	Stressed
5	Methyl acetate	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot YDGVD)		+/- 49.5980 µg/mL	Unstressed
	Purity 99%		+/- 50.8309 µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,001.5 µg/mL	+/- 5.8774 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.5485 µg/mL	Unstressed
	Purity 99%		+/- 50.7802 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot H3HGC)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed

8	Carbon disulfide		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
9	Acrylonitrile		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
11	n-Hexane (C6)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6227	µg/mL	Unstressed
	Purity 99%				+/-	50.8563	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
15	Propionitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot N44LF)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
16	Methacrylonitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,001.0	µg/mL	+/-	146.3864	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,236.8670	µg/mL	Unstressed
	Purity 99%				+/-	1,267.6168	µg/mL	Stressed
18	Tetrahydrofuran		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
19	Cyclohexane		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
20	1-Butanol		50,004.5	µg/mL	+/-	292.7722	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot 6B6UL)			+/-	2,473.8558	µg/mL	Unstressed
	Purity 99%				+/-	2,535.3586	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 11010100)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
22	n-Heptane (C7)		1,002.5	µg/mL	+/-	5.8832	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.5980	µg/mL	Unstressed
	Purity 99%				+/-	50.8309	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed

24	Methylcyclohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
25	Methyl methacrylate		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
26	1,4-Dioxane		25,004.0	µg/mL	+/-	146.4039	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.0154	µg/mL	Unstressed
	Purity 99%				+/-	1,267.7689	µg/mL	Stressed
27	2-Nitropropane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
28	Ethyl methacrylate		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
29	1-Chlorohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,000.4	µg/mL	+/-	29.2781	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	247.3808	µg/mL	Unstressed
	Purity 97%				+/-	253.5310	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,001.1	µg/mL	+/-	5.8748	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.5272	µg/mL	Unstressed
	Purity 98%				+/-	50.7584	µg/mL	Stressed
32	1,3-Diethylbenzene		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.6474	µg/mL	Unstressed
	Purity 99%				+/-	50.8816	µg/mL	Stressed
33	Benzyl chloride		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
34	1,4-Diethylbenzene		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
35	1,2-Diethylbenzene		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
37	2-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

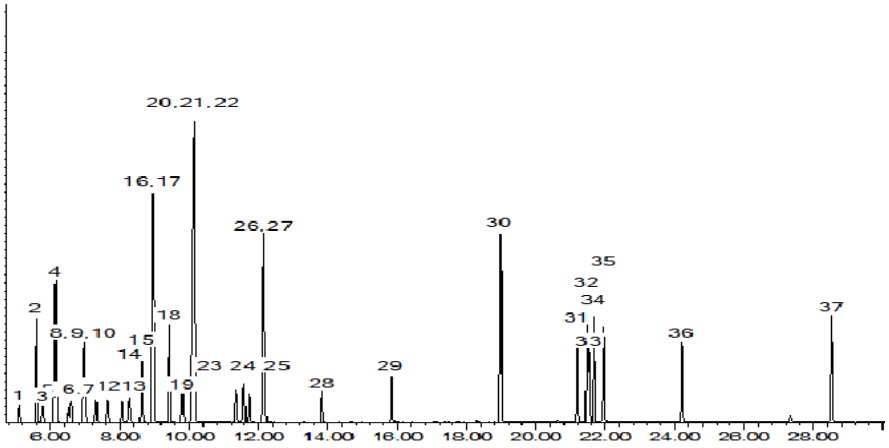
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 28-Apr-2021 **Balance:** 1128353505

Alexis Shelow - Operations Tech I

Date Passed: 04-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_M_MIX2SEC_00085

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577494 **Lot No.:** A0184412

Description : Custom VOC MegaMix®.SEC #2 Standard

Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	n-Pentane (C5)	1,008.7 µg/mL	+/- 5.9912	µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.9116	µg/mL	Unstressed
	Purity 99%		+/- 51.1520	µg/mL	Stressed
2	2-Propanol (isopropanol)	7,505.3 µg/mL	+/- 43.9454	µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot G6HNF)		+/- 371.3091	µg/mL	Unstressed
	Purity 99%		+/- 380.5402	µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,010.0 µg/mL	+/- 5.9991	µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.9776	µg/mL	Unstressed
	Purity 99%		+/- 51.2196	µg/mL	Stressed
4	tert-Butanol (TBA)	10,043.3 µg/mL	+/- 58.8059	µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot ZSJ2O)		+/- 496.8708	µg/mL	Unstressed
	Purity 99%		+/- 509.2235	µg/mL	Stressed
5	Methyl acetate	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot UCNEL)		+/- 49.5817	µg/mL	Unstressed
	Purity 99%		+/- 50.8139	µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.6477	µg/mL	Unstressed
	Purity 99%		+/- 50.8815	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot RD210329)		+/- 49.6477	µg/mL	Unstressed
	Purity 99%		+/- 50.8815	µg/mL	Stressed

8	Carbon disulfide		1,008.7	µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.9116	µg/mL	Unstressed
	Purity 99%				+/-	51.1520	µg/mL	Stressed
9	Acrylonitrile		5,034.7	µg/mL	+/-	29.5462	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	249.0865	µg/mL	Unstressed
	Purity 99%				+/-	255.2787	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.8786	µg/mL	Unstressed
	Purity 99%				+/-	51.1182	µg/mL	Stressed
11	n-Hexane (C6)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,006.7	µg/mL	+/-	5.9793	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210927JLM)			+/-	49.8127	µg/mL	Unstressed
	Purity 99%				+/-	51.0506	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,004.2	µg/mL	+/-	5.9645	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.6893	µg/mL	Unstressed
	Purity 98%				+/-	50.9241	µg/mL	Stressed
15	Propionitrile		7,512.7	µg/mL	+/-	43.9883	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot PS48O)			+/-	371.6719	µg/mL	Unstressed
	Purity 99%				+/-	380.9121	µg/mL	Stressed
16	Methacrylonitrile		7,502.7	µg/mL	+/-	43.9298	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	371.1772	µg/mL	Unstressed
	Purity 99%				+/-	380.4050	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,034.0	µg/mL	+/-	146.5796	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,238.4996	µg/mL	Unstressed
	Purity 99%				+/-	1,269.2900	µg/mL	Stressed
18	Tetrahydrofuran		5,008.7	µg/mL	+/-	29.3937	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.8002	µg/mL	Unstressed
	Purity 99%				+/-	253.9604	µg/mL	Stressed
19	Cyclohexane		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
20	1-Butanol		50,012.0	µg/mL	+/-	292.8313	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot RSHAH)			+/-	2,474.2286	µg/mL	Unstressed
	Purity 99%				+/-	2,535.7406	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,009.4	µg/mL	+/-	5.9955	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 12075100)			+/-	49.9479	µg/mL	Unstressed
	Purity 98%				+/-	51.1892	µg/mL	Stressed
22	n-Heptane (C7)		1,007.3	µg/mL	+/-	5.9833	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.8456	µg/mL	Unstressed
	Purity 99%				+/-	51.0844	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,004.7	µg/mL	+/-	5.9674	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.7137	µg/mL	Unstressed
	Purity 99%				+/-	50.9491	µg/mL	Stressed

24	Methylcyclohexane		1,005.3	µg/mL	+/-	5.9714	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.7467	µg/mL	Unstressed
	Purity 99%				+/-	50.9829	µg/mL	Stressed
25	Methyl methacrylate		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
26	1,4-Dioxane		25,019.3	µg/mL	+/-	146.4937	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.7740	µg/mL	Unstressed
	Purity 99%				+/-	1,268.5463	µg/mL	Stressed
27	2-Nitropropane		1,010.0	µg/mL	+/-	5.9991	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.9776	µg/mL	Unstressed
	Purity 99%				+/-	51.2196	µg/mL	Stressed
28	Ethyl methacrylate		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot AQSPO)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
29	1-Chlorohexane		1,000.7	µg/mL	+/-	5.9437	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 13075400)			+/-	49.5158	µg/mL	Unstressed
	Purity 99%				+/-	50.7463	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,014.9	µg/mL	+/-	29.4302	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot RD220126S)			+/-	248.1086	µg/mL	Unstressed
	Purity 97%				+/-	254.2764	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,003.5	µg/mL	+/-	5.9606	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.6569	µg/mL	Unstressed
	Purity 98%				+/-	50.8910	µg/mL	Stressed
32	1,3-Diethylbenzene		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
33	Benzyl chloride		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
34	1,4-Diethylbenzene		1,001.6	µg/mL	+/-	5.9490	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5600	µg/mL	Unstressed
	Purity 98%				+/-	50.7916	µg/mL	Stressed
35	1,2-Diethylbenzene		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.5817	µg/mL	Unstressed
	Purity 99%				+/-	50.8139	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,009.3	µg/mL	+/-	5.9951	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.9446	µg/mL	Unstressed
	Purity 99%				+/-	51.1858	µg/mL	Stressed
37	2-Methylnaphthalene		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

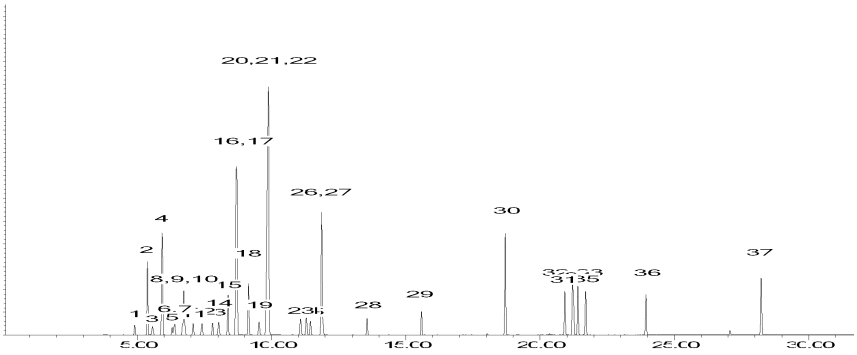
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 22-Apr-2022 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Apr-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_MegaMIX#1_00076

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577486 **Lot No.:** A0171634

Description : Custom VOC MegaMix® #1 Standard

Custom VOC MegaMix® #1 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

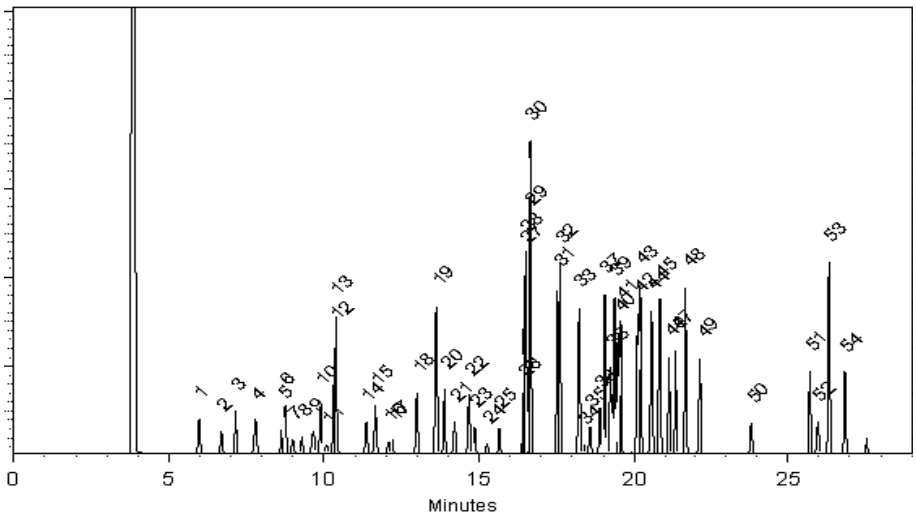
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_MegaMIX#1_00082

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577486 **Lot No.:** A0171634

Description : Custom VOC MegaMix® #1 Standard

Custom VOC MegaMix® #1 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

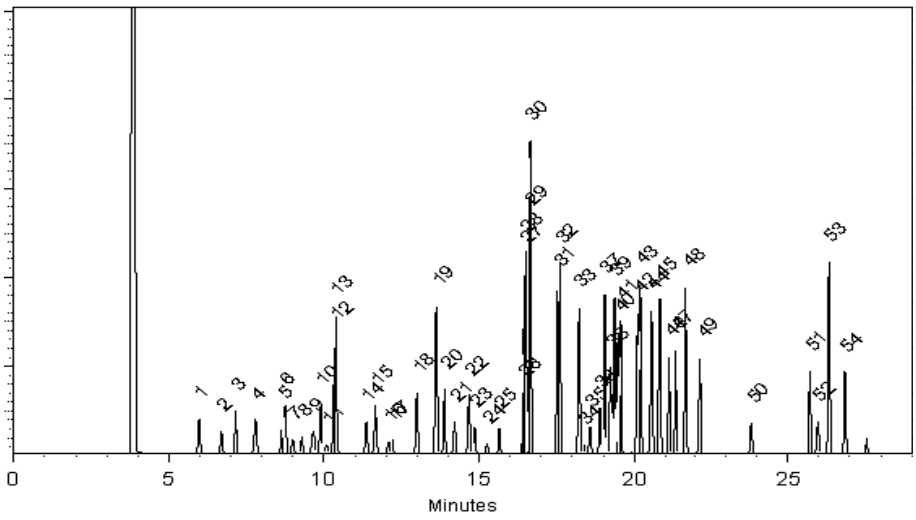
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_MegaMIX#1_00083

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577486 **Lot No.:** A0171634

Description : Custom VOC MegaMix® #1 Standard

Custom VOC MegaMix® #1 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

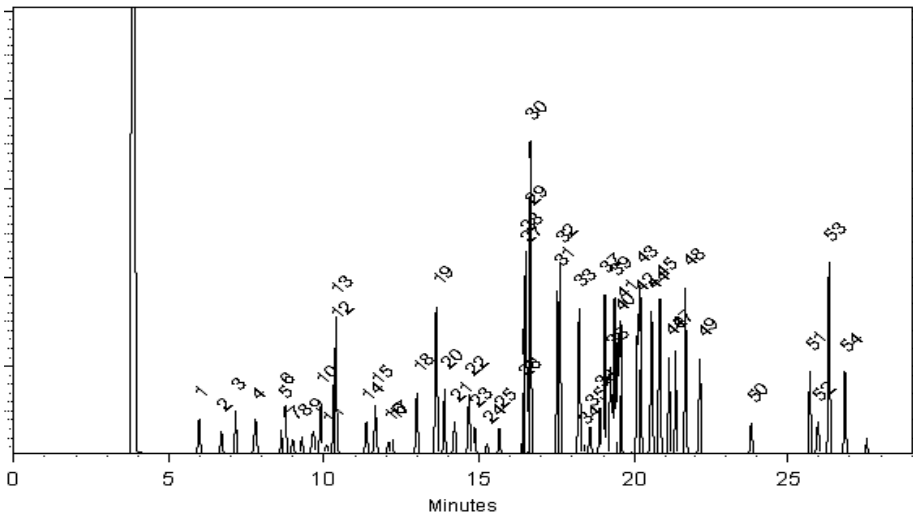
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_MegaMix#2_00076

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577487 **Lot No.:** A0173454

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	5,000.8 µg/mL	+/- 34.9563 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM6577)		+/- 248.1404 µg/mL	Unstressed
	Purity 99%		+/- 254.2734 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,000.0 µg/mL	+/- 146.3805 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBH7211)		+/- 1,236.8175 µg/mL	Unstressed
	Purity 99%		+/- 1,267.5661 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,000.0 µg/mL	+/- 34.9505 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.0991 µg/mL	Unstressed
	Purity 99%		+/- 254.2310 µg/mL	Stressed
4	tert-Butanol (TBA)	25,010.0 µg/mL	+/- 146.4390 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,237.3122 µg/mL	Unstressed
	Purity 99%		+/- 1,268.0731 µg/mL	Stressed
5	Methyl acetate	5,000.2 µg/mL	+/- 34.9516 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBM1320)		+/- 248.1073 µg/mL	Unstressed
	Purity 99%		+/- 254.2395 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,001.7 µg/mL	+/- 34.9621 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.1818 µg/mL	Unstressed
	Purity 99%		+/- 254.3157 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,000.7 µg/mL	+/- 34.9551 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.1321 µg/mL	Unstressed
	Purity 99%		+/- 254.2649 µg/mL	Stressed

8	Carbon disulfide		5,004.2	µg/mL	+/-	34.9796	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.3058	µg/mL	Unstressed
	Purity 99%				+/-	254.4428	µg/mL	Stressed
9	Acrylonitrile		12,506.0	µg/mL	+/-	73.2254	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	618.7056	µg/mL	Unstressed
	Purity 99%				+/-	634.0873	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
11	n-Hexane (C6)		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,003.3	µg/mL	+/-	34.9738	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.2645	µg/mL	Unstressed
	Purity 99%				+/-	254.4005	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,001.2	µg/mL	+/-	34.9586	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.1570	µg/mL	Unstressed
	Purity 99%				+/-	254.2903	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
15	Propionitrile		25,006.7	µg/mL	+/-	146.4195	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCCC1173)			+/-	1,237.1473	µg/mL	Unstressed
	Purity 99%				+/-	1,267.9041	µg/mL	Stressed
16	Methacrylonitrile		12,500.7	µg/mL	+/-	73.1942	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	618.4417	µg/mL	Unstressed
	Purity 99%				+/-	633.8168	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.7	µg/mL	+/-	365.9551	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,092.0767	µg/mL	Unstressed
	Purity 99%				+/-	3,168.9490	µg/mL	Stressed
18	Tetrahydrofuran		25,010.0	µg/mL	+/-	146.4390	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM8962)			+/-	1,237.3122	µg/mL	Unstressed
	Purity 99%				+/-	1,268.0731	µg/mL	Stressed
19	Cyclohexane		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
20	1-Butanol		62,504.0	µg/mL	+/-	365.9747	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,092.2416	µg/mL	Unstressed
	Purity 99%				+/-	3,169.1180	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
22	n-Heptane (C7)		5,002.3	µg/mL	+/-	34.9668	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.2148	µg/mL	Unstressed
	Purity 99%				+/-	254.3496	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed

24	Methylcyclohexane		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
25	Methyl methacrylate		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed
26	1,4-Dioxane		62,503.3	µg/mL	+/-	365.9708	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,092.2086	µg/mL	Unstressed
	Purity 99%				+/-	3,169.0842	µg/mL	Stressed
27	2-Nitropropane		25,000.8	µg/mL	+/-	146.3851	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,236.8561	µg/mL	Unstressed
	Purity 97%				+/-	1,267.6056	µg/mL	Stressed
28	Ethyl methacrylate		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
29	1-Chlorohexane		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
30	trans-1,4-dichloro-2-butene		12,510.9	µg/mL	+/-	73.2539	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210617)			+/-	618.9463	µg/mL	Unstressed
	Purity 95%				+/-	634.3340	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
32	1,3-Diethylbenzene		5,000.9	µg/mL	+/-	34.9570	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.1457	µg/mL	Unstressed
	Purity 98%				+/-	254.2788	µg/mL	Stressed
33	Benzyl chloride		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
34	1,4-Diethylbenzene		5,001.4	µg/mL	+/-	34.9605	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1700	µg/mL	Unstressed
	Purity 98%				+/-	254.3037	µg/mL	Stressed
35	1,2-Diethylbenzene		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
37	2-Methylnaphthalene		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

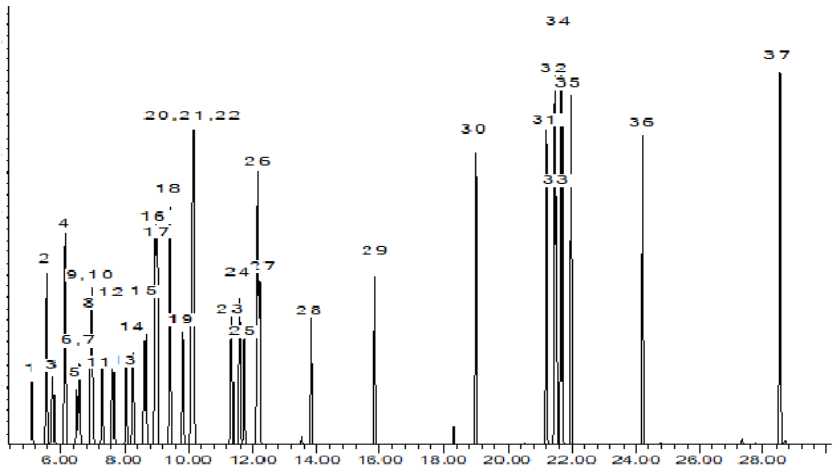
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Jun-2021 **Balance:** B707717271

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_MegaMix#2_00081

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577487 **Lot No.:** A0173454

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5) **CAS #** 109-66-0 (Lot SHBM6577) **Purity** 99%	5,000.8 µg/mL	+/- 34.9563 µg/mL +/- 248.1404 µg/mL +/- 254.2734 µg/mL	Gravimetric Unstressed Stressed
2	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBH7211) **Purity** 99%	25,000.0 µg/mL	+/- 146.3805 µg/mL +/- 1,236.8175 µg/mL +/- 1,267.5661 µg/mL	Gravimetric Unstressed Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00016133) **Purity** 99%	5,000.0 µg/mL	+/- 34.9505 µg/mL +/- 248.0991 µg/mL +/- 254.2310 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBM7694) **Purity** 99%	25,010.0 µg/mL	+/- 146.4390 µg/mL +/- 1,237.3122 µg/mL +/- 1,268.0731 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBM1320) **Purity** 99%	5,000.2 µg/mL	+/- 34.9516 µg/mL +/- 248.1073 µg/mL +/- 254.2395 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot RD210503) **Purity** 99%	5,001.7 µg/mL	+/- 34.9621 µg/mL +/- 248.1818 µg/mL +/- 254.3157 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot RD210402) **Purity** 99%	5,000.7 µg/mL	+/- 34.9551 µg/mL +/- 248.1321 µg/mL +/- 254.2649 µg/mL	Gravimetric Unstressed Stressed

8	Carbon disulfide		5,004.2	µg/mL	+/-	34.9796	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.3058	µg/mL	Unstressed
	Purity 99%				+/-	254.4428	µg/mL	Stressed
9	Acrylonitrile		12,506.0	µg/mL	+/-	73.2254	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	618.7056	µg/mL	Unstressed
	Purity 99%				+/-	634.0873	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
11	n-Hexane (C6)		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,003.3	µg/mL	+/-	34.9738	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.2645	µg/mL	Unstressed
	Purity 99%				+/-	254.4005	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,001.2	µg/mL	+/-	34.9586	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.1570	µg/mL	Unstressed
	Purity 99%				+/-	254.2903	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
15	Propionitrile		25,006.7	µg/mL	+/-	146.4195	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCCC1173)			+/-	1,237.1473	µg/mL	Unstressed
	Purity 99%				+/-	1,267.9041	µg/mL	Stressed
16	Methacrylonitrile		12,500.7	µg/mL	+/-	73.1942	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	618.4417	µg/mL	Unstressed
	Purity 99%				+/-	633.8168	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.7	µg/mL	+/-	365.9551	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,092.0767	µg/mL	Unstressed
	Purity 99%				+/-	3,168.9490	µg/mL	Stressed
18	Tetrahydrofuran		25,010.0	µg/mL	+/-	146.4390	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM8962)			+/-	1,237.3122	µg/mL	Unstressed
	Purity 99%				+/-	1,268.0731	µg/mL	Stressed
19	Cyclohexane		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
20	1-Butanol		62,504.0	µg/mL	+/-	365.9747	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,092.2416	µg/mL	Unstressed
	Purity 99%				+/-	3,169.1180	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
22	n-Heptane (C7)		5,002.3	µg/mL	+/-	34.9668	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.2148	µg/mL	Unstressed
	Purity 99%				+/-	254.3496	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed

24	Methylcyclohexane		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
25	Methyl methacrylate		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed
26	1,4-Dioxane		62,503.3	µg/mL	+/-	365.9708	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,092.2086	µg/mL	Unstressed
	Purity 99%				+/-	3,169.0842	µg/mL	Stressed
27	2-Nitropropane		25,000.8	µg/mL	+/-	146.3851	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,236.8561	µg/mL	Unstressed
	Purity 97%				+/-	1,267.6056	µg/mL	Stressed
28	Ethyl methacrylate		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
29	1-Chlorohexane		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
30	trans-1,4-dichloro-2-butene		12,510.9	µg/mL	+/-	73.2539	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210617)			+/-	618.9463	µg/mL	Unstressed
	Purity 95%				+/-	634.3340	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
32	1,3-Diethylbenzene		5,000.9	µg/mL	+/-	34.9570	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.1457	µg/mL	Unstressed
	Purity 98%				+/-	254.2788	µg/mL	Stressed
33	Benzyl chloride		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
34	1,4-Diethylbenzene		5,001.4	µg/mL	+/-	34.9605	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1700	µg/mL	Unstressed
	Purity 98%				+/-	254.3037	µg/mL	Stressed
35	1,2-Diethylbenzene		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
37	2-Methylnaphthalene		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

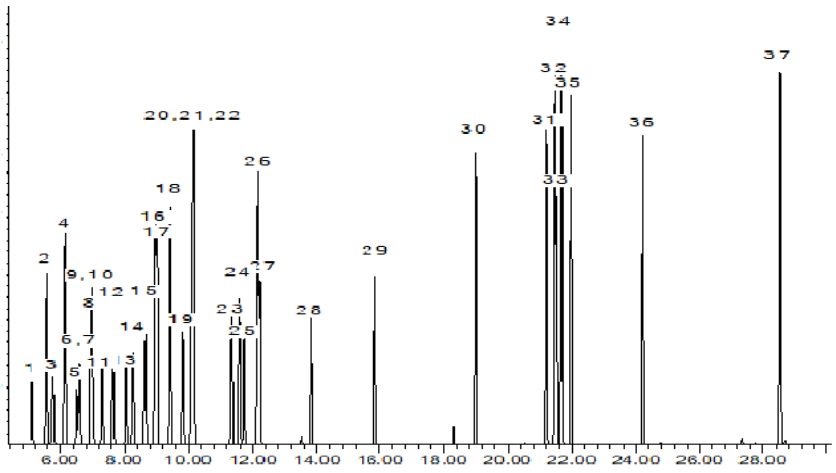
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Jun-2021 **Balance:** B707717271

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_MegaMix#2_00082

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577487 **Lot No.:** A0173454

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	5,000.8 µg/mL	+/- 34.9563 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM6577)		+/- 248.1404 µg/mL	Unstressed
	Purity 99%		+/- 254.2734 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,000.0 µg/mL	+/- 146.3805 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBH7211)		+/- 1,236.8175 µg/mL	Unstressed
	Purity 99%		+/- 1,267.5661 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,000.0 µg/mL	+/- 34.9505 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.0991 µg/mL	Unstressed
	Purity 99%		+/- 254.2310 µg/mL	Stressed
4	tert-Butanol (TBA)	25,010.0 µg/mL	+/- 146.4390 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,237.3122 µg/mL	Unstressed
	Purity 99%		+/- 1,268.0731 µg/mL	Stressed
5	Methyl acetate	5,000.2 µg/mL	+/- 34.9516 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBM1320)		+/- 248.1073 µg/mL	Unstressed
	Purity 99%		+/- 254.2395 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,001.7 µg/mL	+/- 34.9621 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.1818 µg/mL	Unstressed
	Purity 99%		+/- 254.3157 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,000.7 µg/mL	+/- 34.9551 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.1321 µg/mL	Unstressed
	Purity 99%		+/- 254.2649 µg/mL	Stressed

8	Carbon disulfide		5,004.2	µg/mL	+/-	34.9796	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.3058	µg/mL	Unstressed
	Purity 99%				+/-	254.4428	µg/mL	Stressed
9	Acrylonitrile		12,506.0	µg/mL	+/-	73.2254	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	618.7056	µg/mL	Unstressed
	Purity 99%				+/-	634.0873	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
11	n-Hexane (C6)		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,003.3	µg/mL	+/-	34.9738	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.2645	µg/mL	Unstressed
	Purity 99%				+/-	254.4005	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,001.2	µg/mL	+/-	34.9586	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.1570	µg/mL	Unstressed
	Purity 99%				+/-	254.2903	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
15	Propionitrile		25,006.7	µg/mL	+/-	146.4195	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCCC1173)			+/-	1,237.1473	µg/mL	Unstressed
	Purity 99%				+/-	1,267.9041	µg/mL	Stressed
16	Methacrylonitrile		12,500.7	µg/mL	+/-	73.1942	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	618.4417	µg/mL	Unstressed
	Purity 99%				+/-	633.8168	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.7	µg/mL	+/-	365.9551	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,092.0767	µg/mL	Unstressed
	Purity 99%				+/-	3,168.9490	µg/mL	Stressed
18	Tetrahydrofuran		25,010.0	µg/mL	+/-	146.4390	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM8962)			+/-	1,237.3122	µg/mL	Unstressed
	Purity 99%				+/-	1,268.0731	µg/mL	Stressed
19	Cyclohexane		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
20	1-Butanol		62,504.0	µg/mL	+/-	365.9747	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,092.2416	µg/mL	Unstressed
	Purity 99%				+/-	3,169.1180	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
22	n-Heptane (C7)		5,002.3	µg/mL	+/-	34.9668	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.2148	µg/mL	Unstressed
	Purity 99%				+/-	254.3496	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed

24	Methylcyclohexane		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
25	Methyl methacrylate		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed
26	1,4-Dioxane		62,503.3	µg/mL	+/-	365.9708	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,092.2086	µg/mL	Unstressed
	Purity 99%				+/-	3,169.0842	µg/mL	Stressed
27	2-Nitropropane		25,000.8	µg/mL	+/-	146.3851	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,236.8561	µg/mL	Unstressed
	Purity 97%				+/-	1,267.6056	µg/mL	Stressed
28	Ethyl methacrylate		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
29	1-Chlorohexane		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
30	trans-1,4-dichloro-2-butene		12,510.9	µg/mL	+/-	73.2539	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210617)			+/-	618.9463	µg/mL	Unstressed
	Purity 95%				+/-	634.3340	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
32	1,3-Diethylbenzene		5,000.9	µg/mL	+/-	34.9570	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.1457	µg/mL	Unstressed
	Purity 98%				+/-	254.2788	µg/mL	Stressed
33	Benzyl chloride		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
34	1,4-Diethylbenzene		5,001.4	µg/mL	+/-	34.9605	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1700	µg/mL	Unstressed
	Purity 98%				+/-	254.3037	µg/mL	Stressed
35	1,2-Diethylbenzene		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
37	2-Methylnaphthalene		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

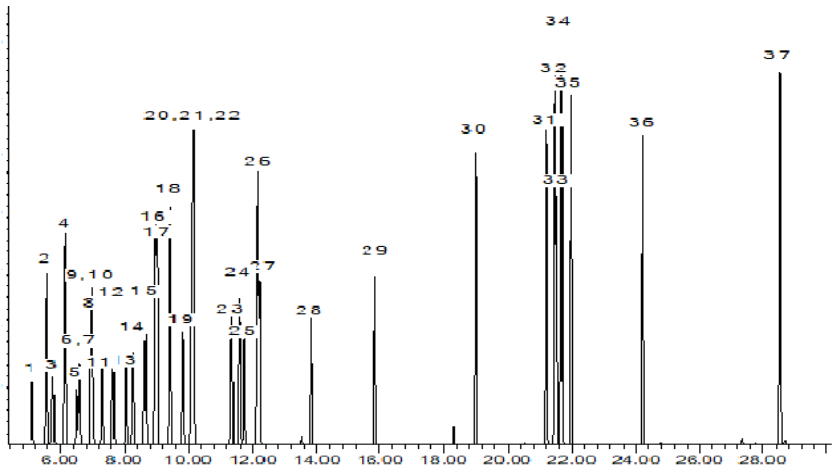
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Jun-2021 **Balance:** B707717271

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_Q_Ketones_00075

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0178490

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

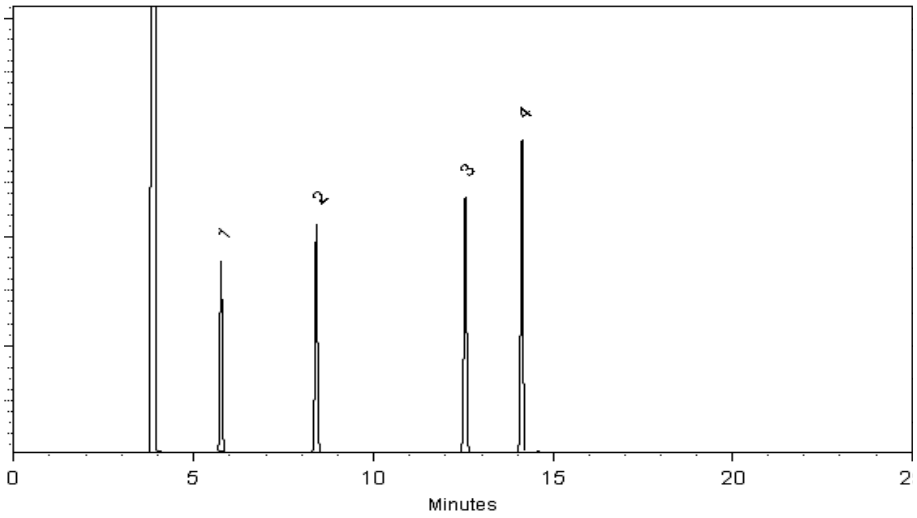
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_Q_Ketones_00081

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0178490

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

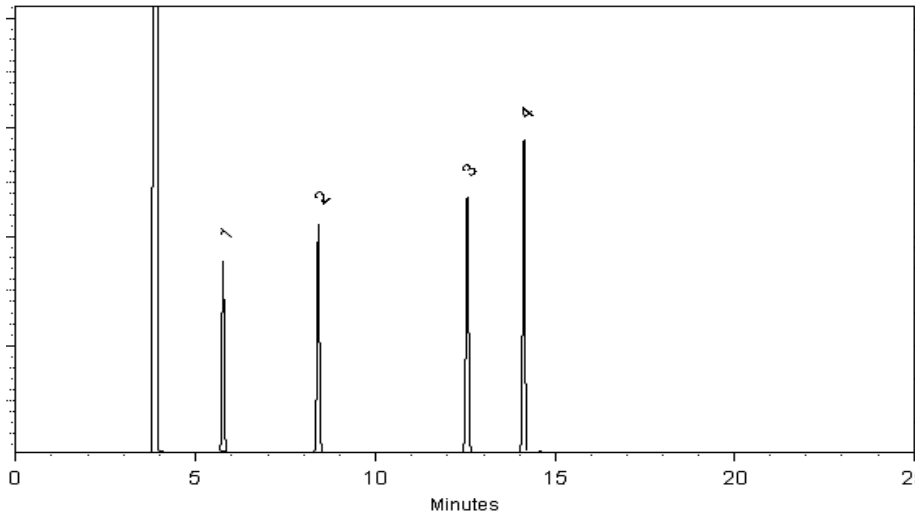
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_Q_Ketones_00082

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0178490

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

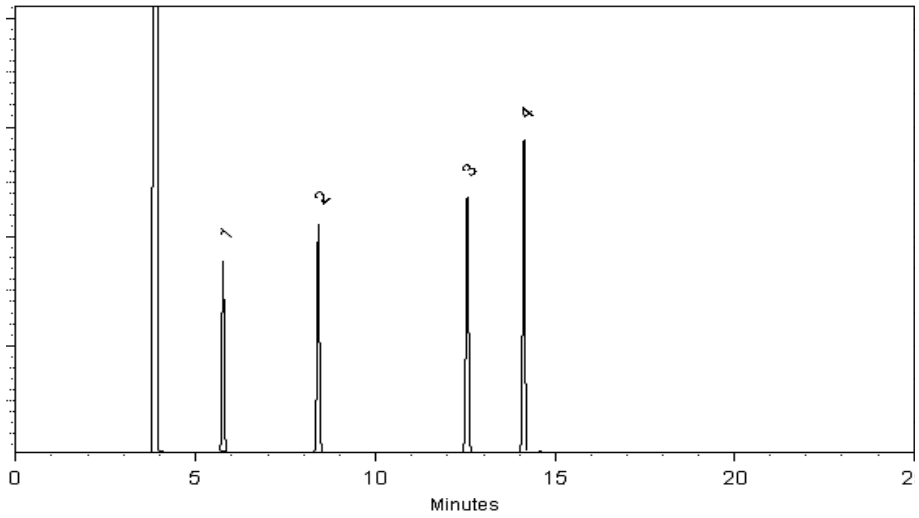
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_Q_Ketones_00083

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0178490

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

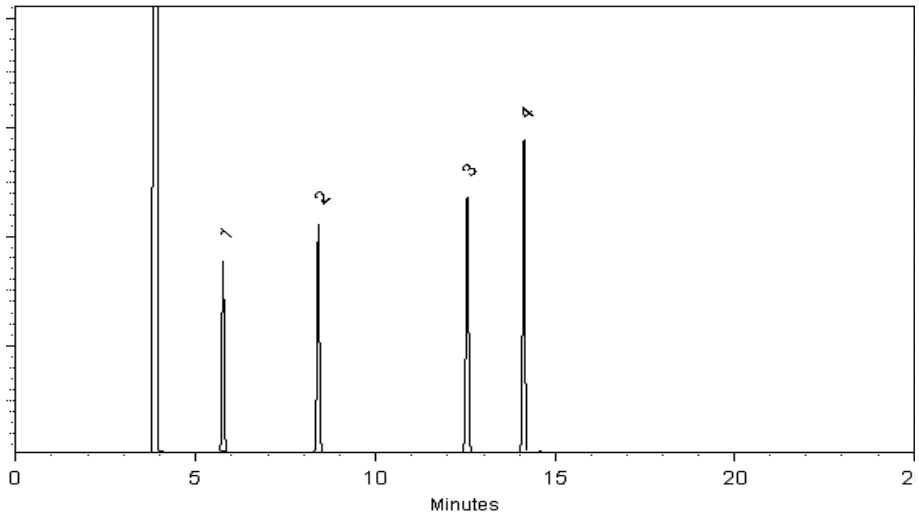
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
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Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_QC_2K_GAS_00096

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488.SEC **Lot No.:** A0172021

Description : Custom Gases.SEC Standard

Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,014.7 µg/mL	+/- 21.3347	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626	µg/mL	Unstressed
	Purity 99%		+/- 116.9742	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157	µg/mL	Unstressed
	Purity 99%		+/- 117.4265	µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387	µg/mL	Unstressed
	Purity 99%		+/- 116.2584	µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849	µg/mL	Unstressed
	Purity 99%		+/- 116.4253	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186	µg/mL	Unstressed
	Purity 99%		+/- 126.4297	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738	µg/mL	Unstressed
	Purity 99%		+/- 118.2437	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494	µg/mL	Unstressed
	Purity 99%		+/- 114.7730	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

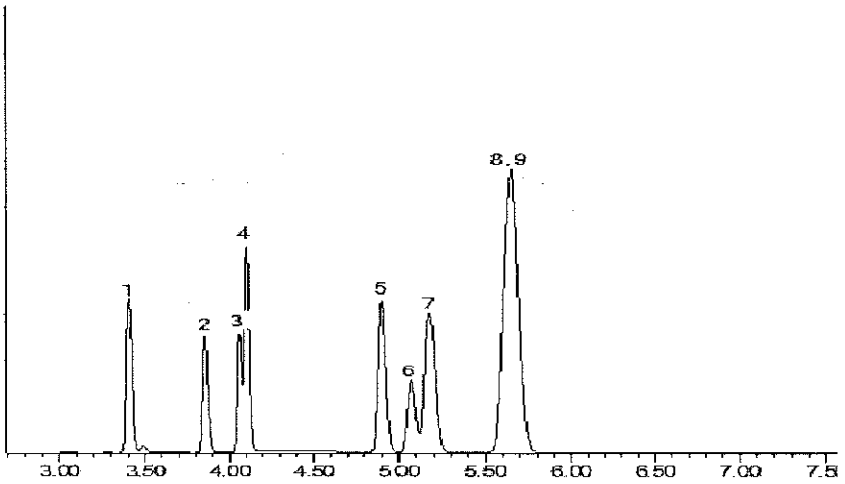
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488.SEC **Lot No.:** A0172021

Description : Custom Gases.SEC Standard

Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26871) **Purity** 99%	2,014.7 µg/mL	+/- 21.3347 µg/mL +/- 114.3626 µg/mL +/- 116.9742 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,018.4 µg/mL	+/- 22.6573 µg/mL +/- 114.8157 µg/mL +/- 117.4265 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,011.6 µg/mL	+/- 18.1502 µg/mL +/- 113.6387 µg/mL +/- 116.2584 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 26996) **Purity** 99%	2,020.9 µg/mL	+/- 15.6985 µg/mL +/- 113.7849 µg/mL +/- 116.4253 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,014.3 µg/mL	+/- 52.5641 µg/mL +/- 124.0186 µg/mL +/- 126.4297 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,009.7 µg/mL	+/- 28.6335 µg/mL +/- 115.6738 µg/mL +/- 118.2437 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 10930400) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 112.1494 µg/mL +/- 114.7730 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

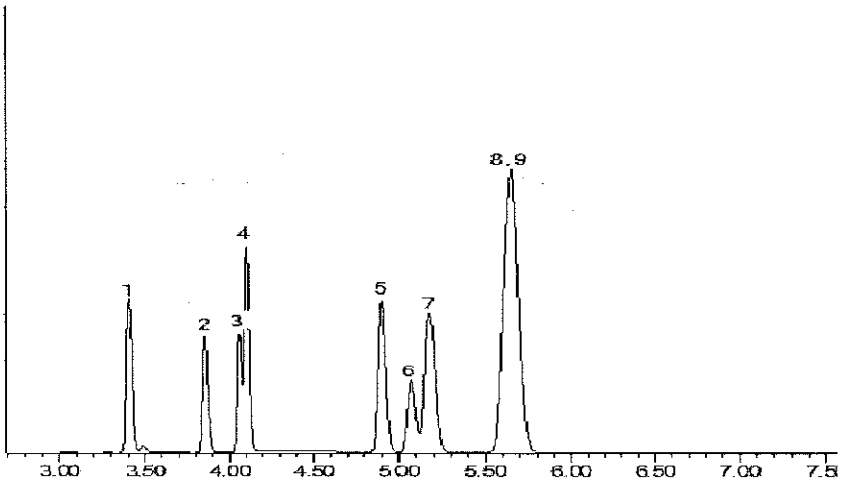
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488.SEC **Lot No.:** A0172021

Description : Custom Gases.SEC Standard

Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,014.7 µg/mL	+/- 21.3347	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626	µg/mL	Unstressed
	Purity 99%		+/- 116.9742	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157	µg/mL	Unstressed
	Purity 99%		+/- 117.4265	µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387	µg/mL	Unstressed
	Purity 99%		+/- 116.2584	µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849	µg/mL	Unstressed
	Purity 99%		+/- 116.4253	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186	µg/mL	Unstressed
	Purity 99%		+/- 126.4297	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738	µg/mL	Unstressed
	Purity 99%		+/- 118.2437	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494	µg/mL	Unstressed
	Purity 99%		+/- 114.7730	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

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60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

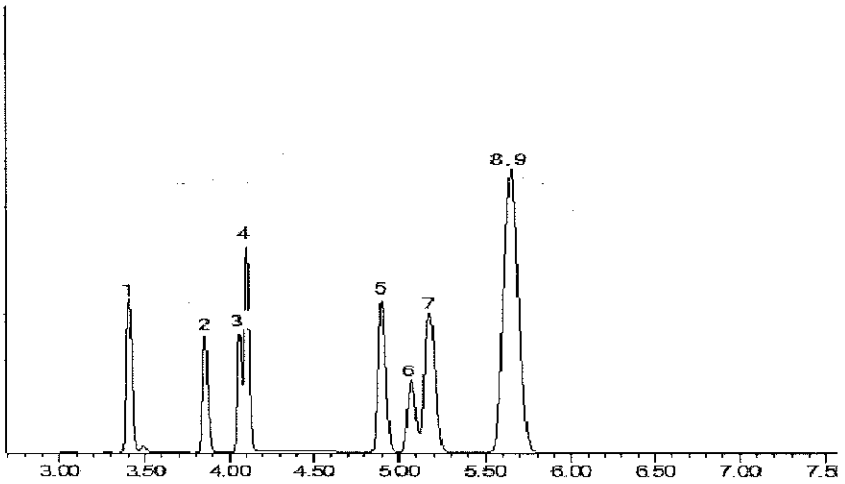
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Reagent

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Catalog No. : 577488.SEC **Lot No.:** A0172021

Description : Custom Gases.SEC Standard

Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,014.7 µg/mL	+/- 21.3347	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626	µg/mL	Unstressed
	Purity 99%		+/- 116.9742	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157	µg/mL	Unstressed
	Purity 99%		+/- 117.4265	µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387	µg/mL	Unstressed
	Purity 99%		+/- 116.2584	µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849	µg/mL	Unstressed
	Purity 99%		+/- 116.4253	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186	µg/mL	Unstressed
	Purity 99%		+/- 126.4297	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738	µg/mL	Unstressed
	Purity 99%		+/- 118.2437	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494	µg/mL	Unstressed
	Purity 99%		+/- 114.7730	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

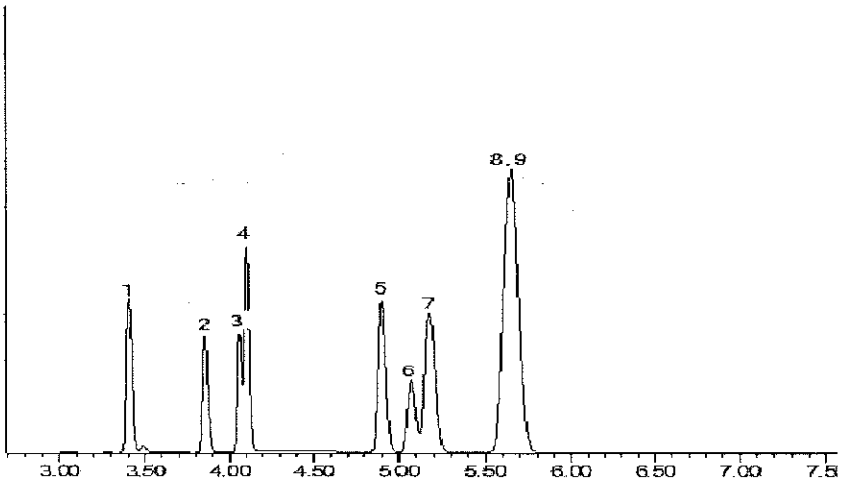
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_QC_2K_GAS_00106

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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488.SEC **Lot No.:** A0172021

Description : Custom Gases.SEC Standard

Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,014.7 µg/mL	+/- 21.3347	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626	µg/mL	Unstressed
	Purity 99%		+/- 116.9742	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157	µg/mL	Unstressed
	Purity 99%		+/- 117.4265	µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387	µg/mL	Unstressed
	Purity 99%		+/- 116.2584	µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849	µg/mL	Unstressed
	Purity 99%		+/- 116.4253	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186	µg/mL	Unstressed
	Purity 99%		+/- 126.4297	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738	µg/mL	Unstressed
	Purity 99%		+/- 118.2437	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494	µg/mL	Unstressed
	Purity 99%		+/- 114.7730	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

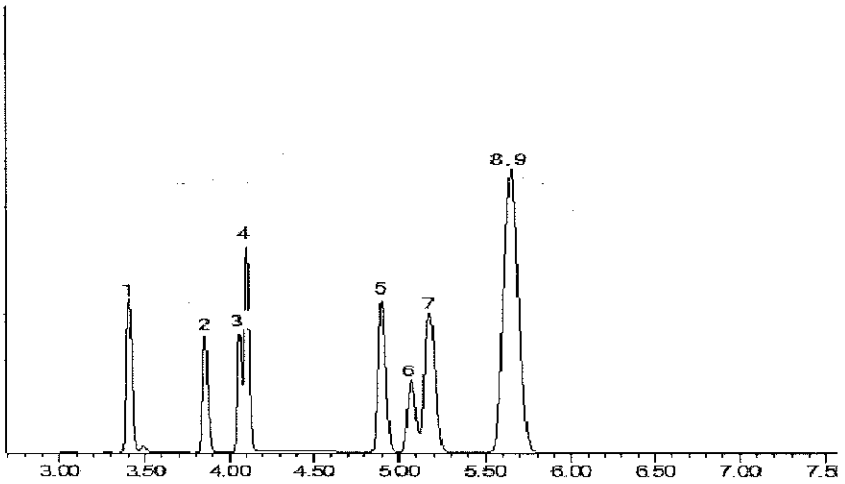
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V#2B_00277

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 56734 **Lot No.:** A0184378

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,000.0 µg/mL	+/- 146.3805 µg/mL
3	Propionitrile	107-12-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,502.0 µg/mL	+/- 73.2020 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,503.0 µg/mL	+/- 365.9688 µg/mL
6	1-Butanol	71-36-3	98%	124,982.3 µg/mL	+/- 731.7613 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,530.0 µg/mL	+/- 366.1269 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,496.3 µg/mL	+/- 73.1686 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

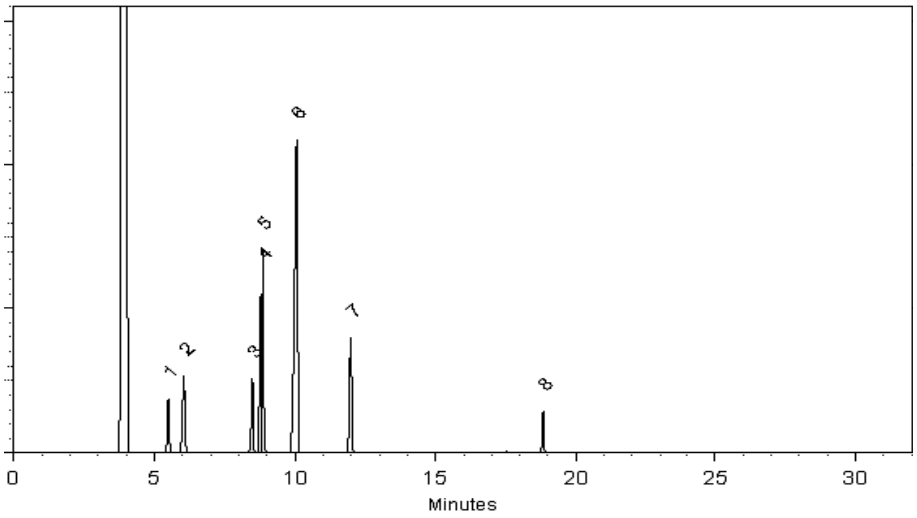
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 21-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 27-Apr-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V#2B_00282

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 56734 **Lot No.:** A0184378

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,000.0 µg/mL	+/- 146.3805 µg/mL
3	Propionitrile	107-12-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,502.0 µg/mL	+/- 73.2020 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,503.0 µg/mL	+/- 365.9688 µg/mL
6	1-Butanol	71-36-3	98%	124,982.3 µg/mL	+/- 731.7613 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,530.0 µg/mL	+/- 366.1269 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,496.3 µg/mL	+/- 73.1686 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

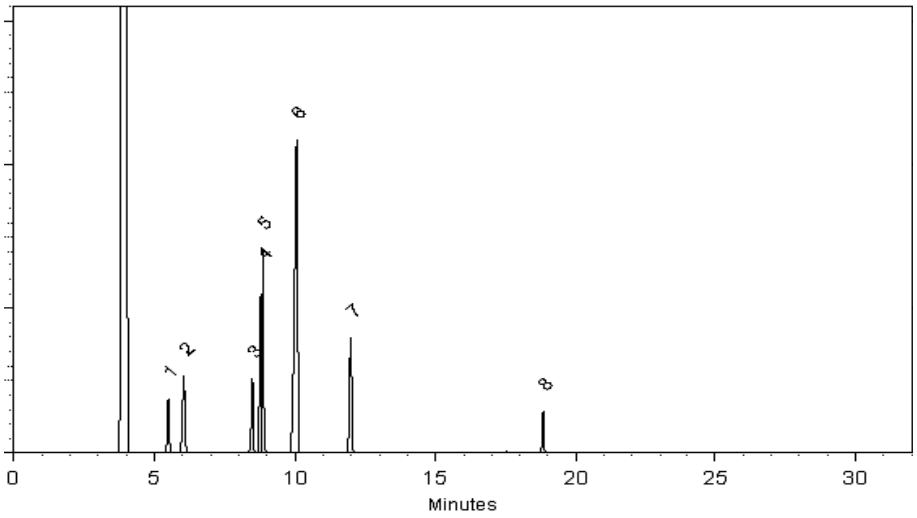
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 21-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 27-Apr-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V#2B_00283

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 56734 **Lot No.:** A0184378

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,000.0 µg/mL	+/- 146.3805 µg/mL
3	Propionitrile	107-12-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,502.0 µg/mL	+/- 73.2020 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,503.0 µg/mL	+/- 365.9688 µg/mL
6	1-Butanol	71-36-3	98%	124,982.3 µg/mL	+/- 731.7613 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,530.0 µg/mL	+/- 366.1269 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,496.3 µg/mL	+/- 73.1686 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

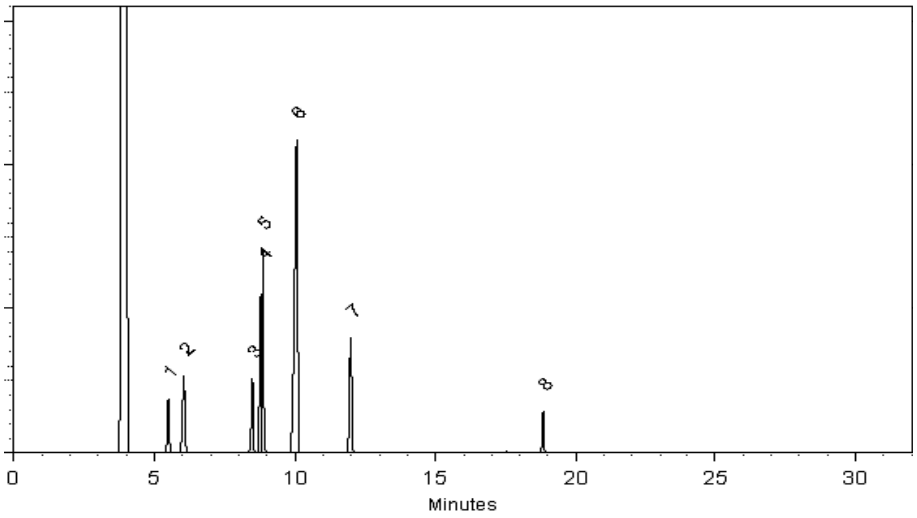
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 21-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 27-Apr-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_2CLEVE_00080

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577492 **Lot No.:** A0171422

Description : Custom 2-CEVE Standard

Custom 2-CEVE Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Chloroethyl vinyl ether	5,010.5 µg/mL	+/- 29.3376 µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 107.3316 µg/mL	Unstressed
	Purity 99%		+/- 110.4487 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

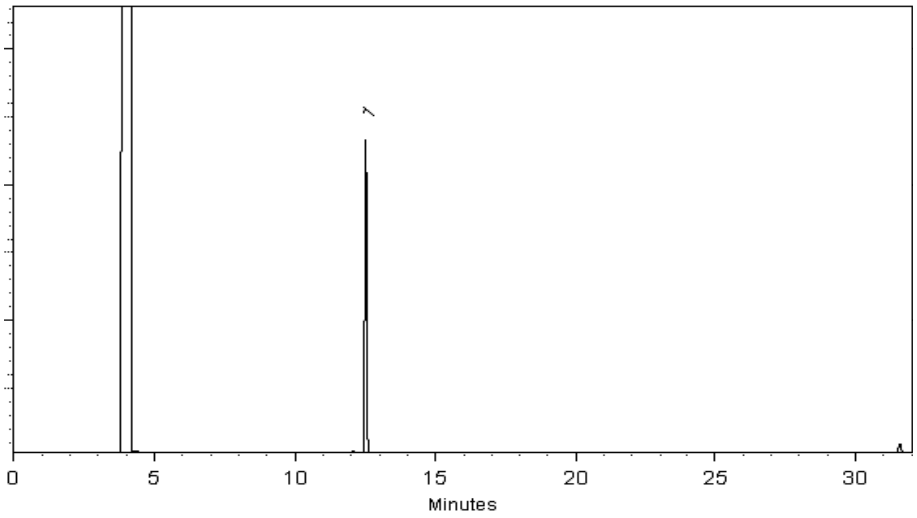
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Apr-2021 **Balance:** 1128360905

Marlina Cowan - Operations Tech I

Date Passed: 26-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V_2CLEVE_00081

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577492 **Lot No.:** A0171422

Description : Custom 2-CEVE Standard

Custom 2-CEVE Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Chloroethyl vinyl ether	5,010.5 µg/mL	+/- 29.3376 µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 107.3316 µg/mL	Unstressed
	Purity 99%		+/- 110.4487 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

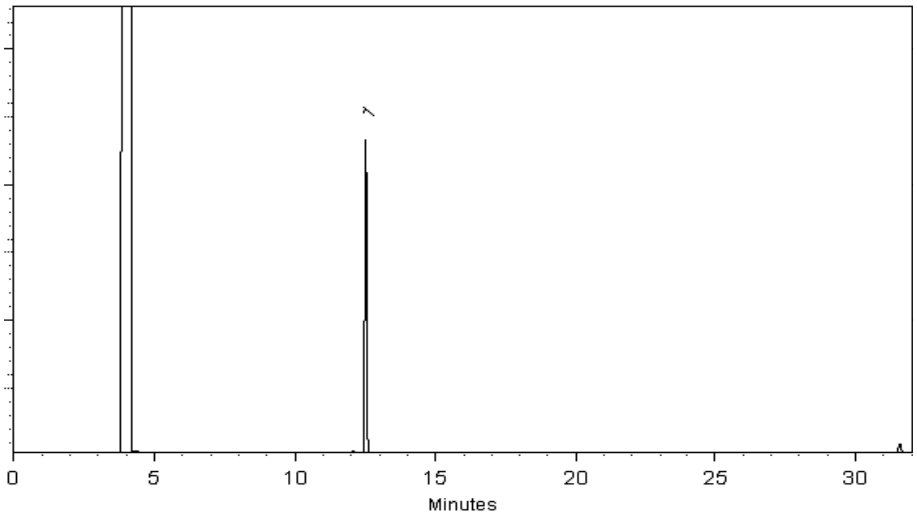
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Apr-2021 **Balance:** 1128360905

Marlina Cowan - Operations Tech I

Date Passed: 26-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V_Ketones_00074

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0174287

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,526.4 µg/mL	+/- 73.3448 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBN3661)		+/- 755.8230 µg/mL	Unstressed
	Purity 99%		+/- 757.6173 µg/mL	Stressed
2	2-Butanone (MEK)	12,543.6 µg/mL	+/- 73.4455 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL5543)		+/- 756.8609 µg/mL	Unstressed
	Purity 99%		+/- 758.6575 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,534.8 µg/mL	+/- 73.3940 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM7956)		+/- 756.3299 µg/mL	Unstressed
	Purity 99%		+/- 758.1253 µg/mL	Stressed
4	2-Hexanone	12,617.6 µg/mL	+/- 73.8788 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 761.3259 µg/mL	Unstressed
	Purity 99%		+/- 763.1332 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

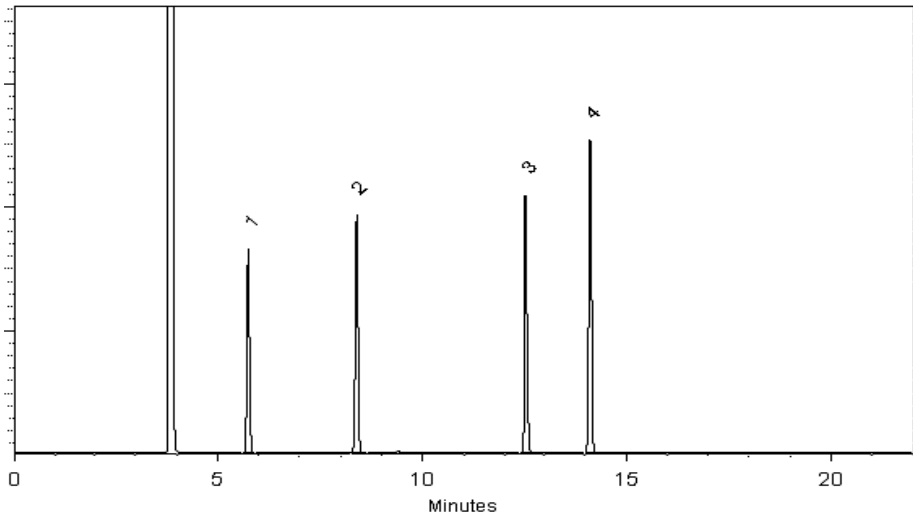
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V_Ketones_00079

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0174287

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,526.4 µg/mL	+/- 73.3448 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBN3661)		+/- 755.8230 µg/mL	Unstressed
	Purity 99%		+/- 757.6173 µg/mL	Stressed
2	2-Butanone (MEK)	12,543.6 µg/mL	+/- 73.4455 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL5543)		+/- 756.8609 µg/mL	Unstressed
	Purity 99%		+/- 758.6575 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,534.8 µg/mL	+/- 73.3940 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM7956)		+/- 756.3299 µg/mL	Unstressed
	Purity 99%		+/- 758.1253 µg/mL	Stressed
4	2-Hexanone	12,617.6 µg/mL	+/- 73.8788 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 761.3259 µg/mL	Unstressed
	Purity 99%		+/- 763.1332 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

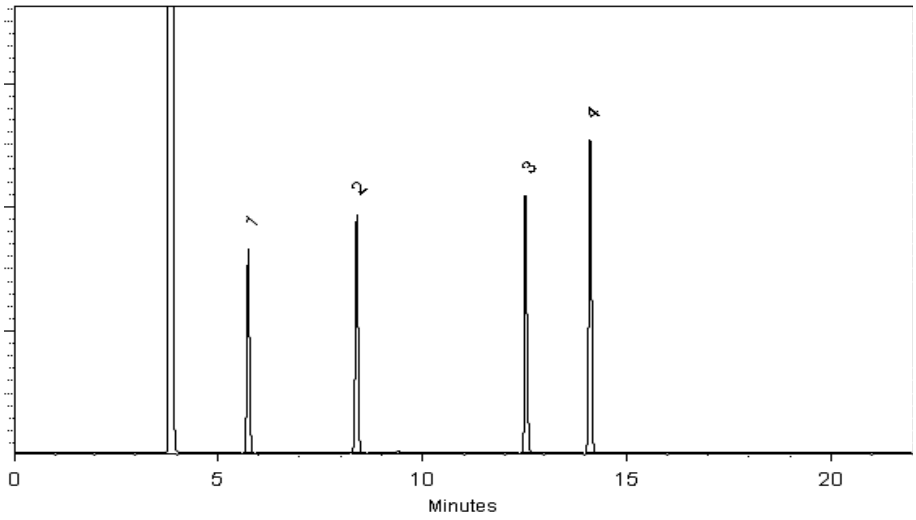
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V_Ketones_00080

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CERTIFIED REFERENCE MATERIAL

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0174287

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,526.4 µg/mL	+/- 73.3448 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBN3661)		+/- 755.8230 µg/mL	Unstressed
	Purity 99%		+/- 757.6173 µg/mL	Stressed
2	2-Butanone (MEK)	12,543.6 µg/mL	+/- 73.4455 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL5543)		+/- 756.8609 µg/mL	Unstressed
	Purity 99%		+/- 758.6575 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,534.8 µg/mL	+/- 73.3940 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM7956)		+/- 756.3299 µg/mL	Unstressed
	Purity 99%		+/- 758.1253 µg/mL	Stressed
4	2-Hexanone	12,617.6 µg/mL	+/- 73.8788 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 761.3259 µg/mL	Unstressed
	Purity 99%		+/- 763.1332 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

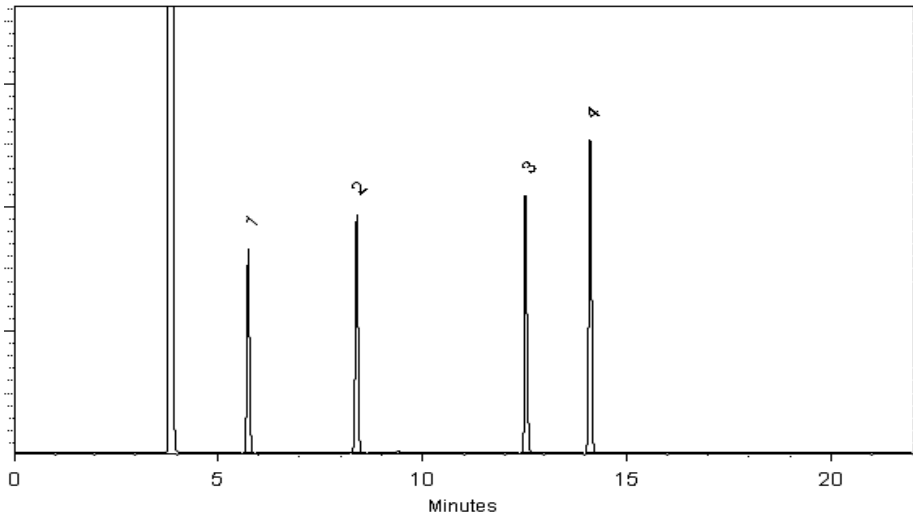
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577491 **Lot No.:** A0171341

Description : Custom Pentachloroethane Standard

Custom Pentachloroethane Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachloroethane	5,006.0 µg/mL	+/- 29.3780 µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 10518800)		+/- 280.7099 µg/mL	Unstressed
	Purity 99%		+/- 287.2768 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

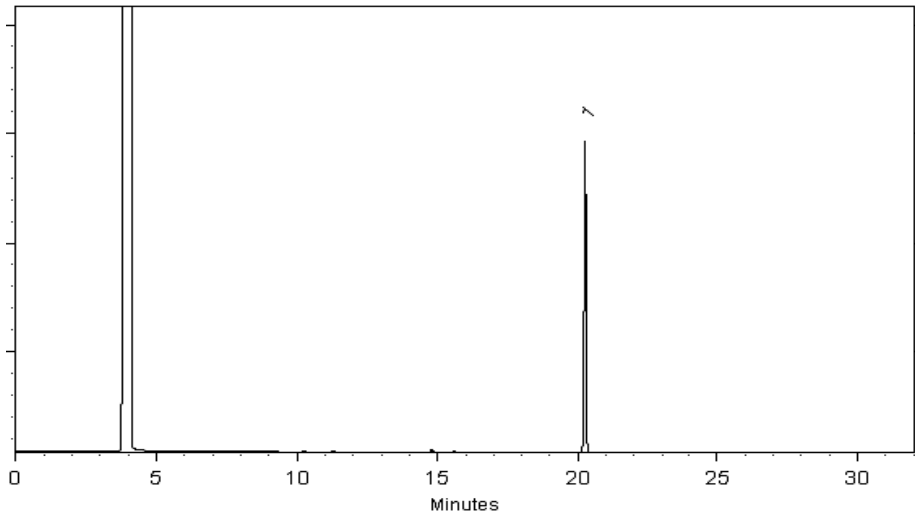
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jeremy Warefield - Operations Tech I

Date Mixed: 14-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577491 **Lot No.:** A0171341

Description : Custom Pentachloroethane Standard

Custom Pentachloroethane Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachloroethane	5,006.0 µg/mL	+/- 29.3780 µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 10518800)		+/- 280.7099 µg/mL	Unstressed
	Purity 99%		+/- 287.2768 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

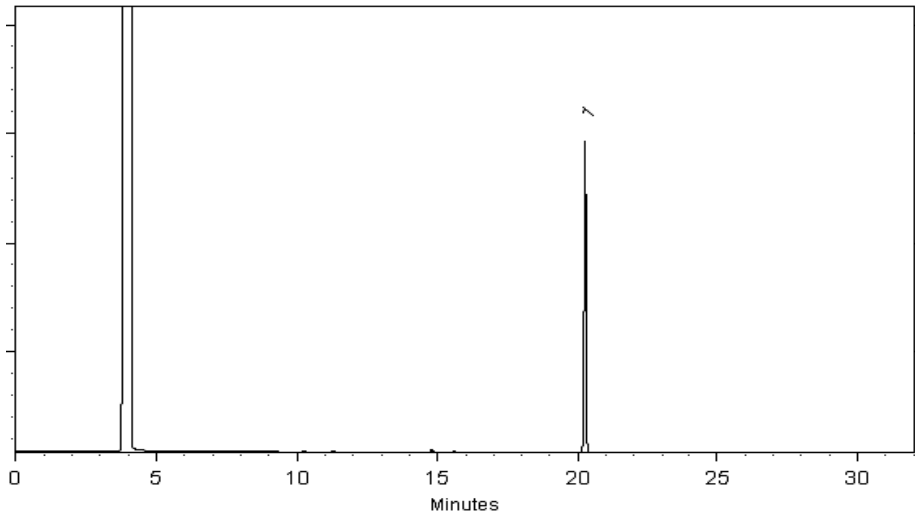
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jeremy Warefield - Operations Tech I

Date Mixed: 14-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577490 **Lot No.:** A0172146

Description : Custom SM Freons Standard

Custom SM Freons Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Chlorotrifluoroethylene	1,998.3 µg/mL	+/- 31.1209 µg/mL	Gravimetric
	CAS # 79-38-9 (Lot 199600)		+/- 115.7047 µg/mL	Unstressed
	Purity 99%		+/- 118.2453 µg/mL	Stressed
2	Chlorodifluoromethane (CFC-22)	2,003.6 µg/mL	+/- 77.8648 µg/mL	Gravimetric
	CAS # 75-45-6 (Lot Q162-44)		+/- 136.1895 µg/mL	Unstressed
	Purity 99%		+/- 138.3658 µg/mL	Stressed
3	2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	2,001.9 µg/mL	+/- 77.7991 µg/mL	Gravimetric
	CAS # 75-88-7 (Lot Q157-146)		+/- 136.0747 µg/mL	Unstressed
	Purity 99%		+/- 138.2491 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

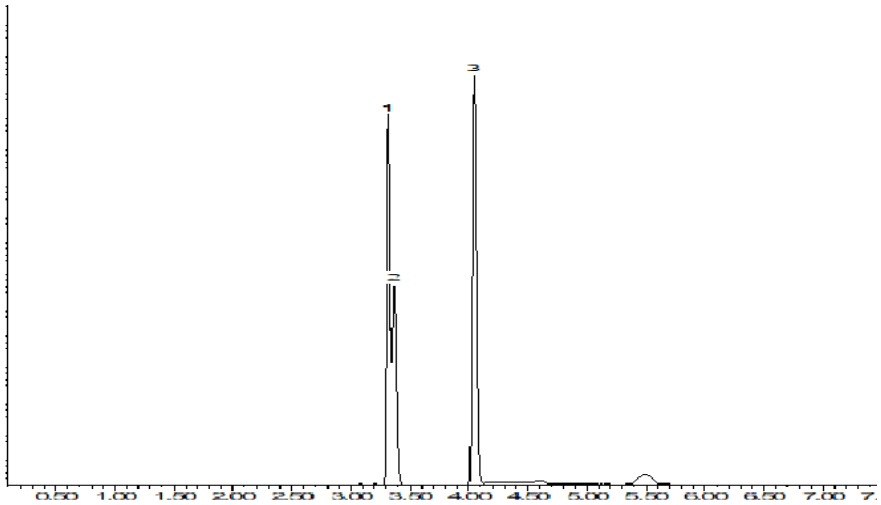
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 07-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 10-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577490 **Lot No.:** A0172146

Description : Custom SM Freons Standard

Custom SM Freons Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Chlorotrifluoroethylene	1,998.3 µg/mL	+/- 31.1209 µg/mL	Gravimetric
	CAS # 79-38-9 (Lot 199600)		+/- 115.7047 µg/mL	Unstressed
	Purity 99%		+/- 118.2453 µg/mL	Stressed
2	Chlorodifluoromethane (CFC-22)	2,003.6 µg/mL	+/- 77.8648 µg/mL	Gravimetric
	CAS # 75-45-6 (Lot Q162-44)		+/- 136.1895 µg/mL	Unstressed
	Purity 99%		+/- 138.3658 µg/mL	Stressed
3	2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	2,001.9 µg/mL	+/- 77.7991 µg/mL	Gravimetric
	CAS # 75-88-7 (Lot Q157-146)		+/- 136.0747 µg/mL	Unstressed
	Purity 99%		+/- 138.2491 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

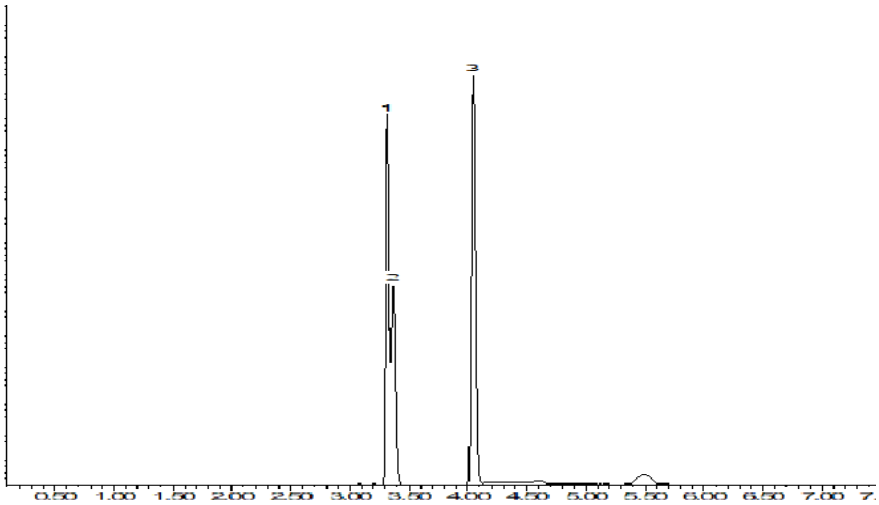
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 07-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 10-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Method 8260D Low Level

Volatile Organic Compounds (GC/MS) by Method 8260D Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-95715-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): R-624SilMS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-COD-SW-6-0/1-0	410-95715-1	111 cn	106 cn	96 cn	95 cn
HD-COD-SW-7-0/1-0	410-95715-2	111	105	97	94
HD-COD-SW-8-0/1-0	410-95715-3	111	108	94	92
HD-COD-SW-9-0/1-0	410-95715-4	110	107	98	93
HD-COD-SW-13-0/1-0	410-95715-5	111	104	97	94
HD-COD-SW-15-0/1-0	410-95715-6	111	106	94	96
HD-COD-SW-16-0/1-0	410-95715-7	109	103	97	96
HD-COD-SW-17-0/1-0	410-95715-8	111	105	93	91
HD-COD-SW-17-0/1-0 DL	410-95715-8 DL	100	102	99	98
HD-COD-SW-26-0/1-0	410-95715-9	111	106	95	94
HD-COD-SW-27-0/1-0	410-95715-10	110	105	96	95
HD-COD-SW-28-0/1-0	410-95715-11	104	106	98	97
HD-COD-SW-29-0/1-0	410-95715-12	99	106	101	89
HD-QC1-0-1-1	410-95715-13	112	111	95	91
HD-QC1-0-1-1 DL	410-95715-13 DL	102	102	100	98
HD-QC1-0-1-2	410-95715-14	106	106	104	89
	MB 410-291418/6	109	106	97	93
	MB 410-291906/7	106	105	101	92
	MB 410-292752/10	102	104	99	97
	MB 410-292755/7	101	103	99	98
	LCS 410-291418/4	103	98	99	102
	LCS 410-291906/5	99	101	110	102
	LCS 410-292752/5	102	103	100	99
	LCS 410-292755/4	101	100	100	101
	LCSD 410-292752/6	103	103	100	99
	LCSD 410-292755/5	102	102	100	100
HD-COD-SW-15-0/1-0 MS	410-95715-6 MS	103	98	96	99
HD-COD-SW-15-0/1-0 MSD	410-95715-6 MSD	104	98	98	104

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IG31X03.D

Lab ID: LCS 410-291418/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.26	105	71-134	
1,1,1-Trichloroethane	5.00	4.40	88	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.21	104	75-123	
1,1,2-Trichloroethane	5.00	5.33	107	80-120	
1,1-Dichloroethane	5.00	5.60	112	74-120	
1,1-Dichloroethene	5.00	4.34	87	80-131	
1,2-Dibromoethane (EDB)	5.00	5.34	107	80-120	
1,2-Dichloroethane	5.00	5.53	111	69-122	
1,2-Dichloropropane	5.00	5.71	114	80-120	
2-Butanone (MEK)	62.5	62.7	100	59-141	
2-Hexanone	62.5	63.5	102	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	67.8	109	55-140	
Acetone	62.5	55.7	89	60-146	
Benzene	5.00	5.62	112	80-120	
Bromochloromethane	5.00	5.62	112	80-120	
Bromodichloromethane	5.00	5.67	113	73-124	
Bromoform	5.00	5.12	102	49-144	
Bromomethane	5.00	5.63	113	60-136	
Carbon disulfide	5.00	5.09	102	67-130	
Carbon tetrachloride	5.00	4.72	94	64-141	
Chlorobenzene	5.00	5.12	102	80-120	
Chloroethane	5.00	5.85	117	63-120	
Chloroform	5.00	5.58	112	80-120	
Chloromethane	5.00	5.54	111	56-124	
cis-1,2-Dichloroethene	5.00	5.67	113	80-122	
cis-1,3-Dichloropropene	5.00	5.38	108	67-121	
Dibromochloromethane	5.00	5.25	105	64-138	
Ethylbenzene	5.00	5.25	105	80-120	
Methyl tert-butyl ether	5.00	5.60	112	69-120	
Methylene Chloride	5.00	5.44	109	80-120	
Styrene	5.00	5.42	108	80-120	
Tetrachloroethene	5.00	4.87	97	80-120	
Toluene	5.00	5.13	103	80-120	
trans-1,2-Dichloroethene	5.00	5.11	102	80-122	
trans-1,3-Dichloropropene	5.00	5.47	109	61-129	
Trichloroethene	5.00	5.36	107	80-120	
Vinyl chloride	5.00	5.49	110	60-125	
Xylenes, Total	15.0	15.8	105	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IS01X04.D

Lab ID: LCS 410-291906/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.15	103	71-134	
1,1,1-Trichloroethane	5.00	3.78	76	78-126	*-
1,1,2,2-Tetrachloroethane	5.00	5.39	108	75-123	
1,1,2-Trichloroethane	5.00	5.70	114	80-120	
1,1-Dichloroethane	5.00	4.84	97	74-120	
1,1-Dichloroethene	5.00	3.69	74	80-131	*-
1,2-Dibromoethane (EDB)	5.00	5.75	115	80-120	
1,2-Dichloroethane	5.00	5.14	103	69-122	
1,2-Dichloropropane	5.00	5.13	103	80-120	
2-Butanone (MEK)	62.5	62.5	100	59-141	
2-Hexanone	62.5	63.9	102	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	65.9	105	55-140	
Acetone	62.5	55.5	89	60-146	
Benzene	5.00	5.07	101	80-120	
Bromochloromethane	5.00	5.06	101	80-120	
Bromodichloromethane	5.00	5.21	104	73-124	
Bromoform	5.00	5.47	109	49-144	
Bromomethane	5.00	5.22	104	60-136	
Carbon disulfide	5.00	4.28	86	67-130	
Carbon tetrachloride	5.00	4.01	80	64-141	
Chlorobenzene	5.00	5.10	102	80-120	
Chloroethane	5.00	4.84	97	63-120	
Chloroform	5.00	5.00	100	80-120	
Chloromethane	5.00	4.93	99	56-124	
cis-1,2-Dichloroethene	5.00	5.08	102	80-122	
cis-1,3-Dichloropropene	5.00	4.90	98	67-121	
Dibromochloromethane	5.00	5.73	115	64-138	
Ethylbenzene	5.00	5.21	104	80-120	
Methyl tert-butyl ether	5.00	4.45	89	69-120	
Methylene Chloride	5.00	4.68	94	80-120	
Styrene	5.00	5.58	112	80-120	
Tetrachloroethene	5.00	5.19	104	80-120	
Toluene	5.00	5.40	108	80-120	
trans-1,2-Dichloroethene	5.00	4.47	89	80-122	
trans-1,3-Dichloropropene	5.00	5.60	112	61-129	
Trichloroethene	5.00	4.85	97	80-120	
Vinyl chloride	5.00	4.90	98	60-125	
Xylenes, Total	15.0	15.9	106	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CS05X04.D

Lab ID: LCS 410-292752/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.82	96	71-134	
1,1,1-Trichloroethane	5.00	4.81	96	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.75	95	75-123	
1,1,2-Trichloroethane	5.00	4.87	97	80-120	
1,1-Dichloroethane	5.00	4.65	93	74-120	
1,1-Dichloroethene	5.00	5.02	100	80-131	
1,2-Dibromoethane (EDB)	5.00	4.93	99	80-120	
1,2-Dichloroethane	5.00	4.73	95	69-122	
1,2-Dichloropropane	5.00	4.69	94	80-120	
2-Butanone (MEK)	62.5	56.2	90	59-141	
2-Hexanone	62.5	57.4	92	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	55.9	89	55-140	
Acetone	62.5	51.8	83	60-146	
Benzene	5.00	4.78	96	80-120	
Bromochloromethane	5.00	5.07	101	80-120	
Bromodichloromethane	5.00	4.98	100	73-124	
Bromoform	5.00	5.27	105	49-144	
Bromomethane	5.00	4.85	97	60-136	
Carbon disulfide	5.00	5.38	108	67-130	
Carbon tetrachloride	5.00	4.93	99	64-141	
Chlorobenzene	5.00	4.66	93	80-120	
Chloroethane	5.00	4.68	94	63-120	
Chloroform	5.00	4.78	96	80-120	
Chloromethane	5.00	4.56	91	56-124	
cis-1,2-Dichloroethene	5.00	4.97	99	80-122	
cis-1,3-Dichloropropene	5.00	4.94	99	67-121	
Dibromochloromethane	5.00	5.07	101	64-138	
Ethylbenzene	5.00	4.72	94	80-120	
Methyl tert-butyl ether	5.00	5.02	100	69-120	
Methylene Chloride	5.00	4.91	98	80-120	
Styrene	5.00	4.82	96	80-120	
Tetrachloroethene	5.00	4.79	96	80-120	
Toluene	5.00	4.69	94	80-120	
trans-1,2-Dichloroethene	5.00	4.79	96	80-122	
trans-1,3-Dichloropropene	5.00	5.02	100	61-129	
Trichloroethene	5.00	4.81	96	80-120	
Vinyl chloride	5.00	4.75	95	60-125	
Xylenes, Total	15.0	14.2	95	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GS05X03.D

Lab ID: LCS 410-292755/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.24	105	71-134	
1,1,1-Trichloroethane	5.00	5.14	103	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.84	97	75-123	
1,1,2-Trichloroethane	5.00	4.94	99	80-120	
1,1-Dichloroethane	5.00	4.79	96	74-120	
1,1-Dichloroethene	5.00	5.19	104	80-131	
1,2-Dibromoethane (EDB)	5.00	4.93	99	80-120	
1,2-Dichloroethane	5.00	4.84	97	69-122	
1,2-Dichloropropane	5.00	4.94	99	80-120	
2-Butanone (MEK)	62.5	63.7	102	59-141	
2-Hexanone	62.5	66.7	107	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	64.0	102	55-140	
Acetone	62.5	53.9	86	60-146	
Benzene	5.00	4.83	97	80-120	
Bromochloromethane	5.00	5.06	101	80-120	
Bromodichloromethane	5.00	5.33	107	73-124	
Bromoform	5.00	5.99	120	49-144	
Bromomethane	5.00	4.81	96	60-136	
Carbon disulfide	5.00	5.70	114	67-130	
Carbon tetrachloride	5.00	5.27	105	64-141	
Chlorobenzene	5.00	4.78	96	80-120	
Chloroethane	5.00	4.88	98	63-120	
Chloroform	5.00	4.93	99	80-120	
Chloromethane	5.00	4.73	95	56-124	
cis-1,2-Dichloroethene	5.00	5.05	101	80-122	
cis-1,3-Dichloropropene	5.00	5.19	104	67-121	
Dibromochloromethane	5.00	5.59	112	64-138	
Ethylbenzene	5.00	4.82	96	80-120	
Methyl tert-butyl ether	5.00	5.00	100	69-120	
Methylene Chloride	5.00	4.88	98	80-120	
Styrene	5.00	4.87	97	80-120	
Tetrachloroethene	5.00	4.97	99	80-120	
Toluene	5.00	4.80	96	80-120	
trans-1,2-Dichloroethene	5.00	4.87	97	80-122	
trans-1,3-Dichloropropene	5.00	5.55	111	61-129	
Trichloroethene	5.00	4.89	98	80-120	
Vinyl chloride	5.00	4.72	94	60-125	
Xylenes, Total	15.0	14.7	98	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CS05X05.D

Lab ID: LCSD 410-292752/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.85	97	0	30	71-134	
1,1,1-Trichloroethane	5.00	4.80	96	0	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.86	97	2	30	75-123	
1,1,2-Trichloroethane	5.00	4.81	96	1	30	80-120	
1,1-Dichloroethane	5.00	4.67	93	0	30	74-120	
1,1-Dichloroethene	5.00	5.00	100	0	30	80-131	
1,2-Dibromoethane (EDB)	5.00	4.90	98	1	30	80-120	
1,2-Dichloroethane	5.00	4.51	90	5	30	69-122	
1,2-Dichloropropane	5.00	4.72	94	1	30	80-120	
2-Butanone (MEK)	62.5	56.5	90	1	30	59-141	
2-Hexanone	62.5	56.2	90	2	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	55.3	89	1	30	55-140	
Acetone	62.5	52.9	85	2	30	60-146	
Benzene	5.00	4.77	95	0	30	80-120	
Bromochloromethane	5.00	4.99	100	1	30	80-120	
Bromodichloromethane	5.00	4.93	99	1	30	73-124	
Bromoform	5.00	5.23	105	1	30	49-144	
Bromomethane	5.00	4.84	97	0	30	60-136	
Carbon disulfide	5.00	5.35	107	1	30	67-130	
Carbon tetrachloride	5.00	4.95	99	1	30	64-141	
Chlorobenzene	5.00	4.68	94	0	30	80-120	
Chloroethane	5.00	4.70	94	0	30	63-120	
Chloroform	5.00	4.73	95	1	30	80-120	
Chloromethane	5.00	4.50	90	1	30	56-124	
cis-1,2-Dichloroethene	5.00	4.95	99	0	30	80-122	
cis-1,3-Dichloropropene	5.00	4.83	97	2	30	67-121	
Dibromochloromethane	5.00	4.95	99	2	30	64-138	
Ethylbenzene	5.00	4.74	95	0	30	80-120	
Methyl tert-butyl ether	5.00	5.05	101	0	30	69-120	
Methylene Chloride	5.00	4.81	96	2	30	80-120	
Styrene	5.00	4.80	96	0	30	80-120	
Tetrachloroethene	5.00	4.83	97	1	30	80-120	
Toluene	5.00	4.66	93	1	30	80-120	
trans-1,2-Dichloroethene	5.00	4.78	96	0	30	80-122	
trans-1,3-Dichloropropene	5.00	5.04	101	0	30	61-129	
Trichloroethene	5.00	4.73	95	2	30	80-120	
Vinyl chloride	5.00	4.74	95	0	30	60-125	
Xylenes, Total	15.0	14.2	95	0	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GS05X04.D

Lab ID: LCSD 410-292755/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.06	101	3	30	71-134	
1,1,1-Trichloroethane	5.00	4.91	98	5	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.81	96	1	30	75-123	
1,1,2-Trichloroethane	5.00	4.79	96	3	30	80-120	
1,1-Dichloroethane	5.00	4.67	93	3	30	74-120	
1,1-Dichloroethene	5.00	4.68	94	10	30	80-131	
1,2-Dibromoethane (EDB)	5.00	4.77	95	3	30	80-120	
1,2-Dichloroethane	5.00	4.85	97	0	30	69-122	
1,2-Dichloropropane	5.00	4.78	96	3	30	80-120	
2-Butanone (MEK)	62.5	52.0	83	20	30	59-141	
2-Hexanone	62.5	53.4	85	22	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	53.6	86	18	30	55-140	
Acetone	62.5	48.7	78	10	30	60-146	
Benzene	5.00	4.68	94	3	30	80-120	
Bromochloromethane	5.00	4.97	99	2	30	80-120	
Bromodichloromethane	5.00	5.19	104	3	30	73-124	
Bromoform	5.00	5.77	115	4	30	49-144	
Bromomethane	5.00	4.59	92	5	30	60-136	
Carbon disulfide	5.00	5.36	107	6	30	67-130	
Carbon tetrachloride	5.00	4.99	100	5	30	64-141	
Chlorobenzene	5.00	4.61	92	4	30	80-120	
Chloroethane	5.00	4.66	93	4	30	63-120	
Chloroform	5.00	4.75	95	4	30	80-120	
Chloromethane	5.00	4.46	89	6	30	56-124	
cis-1,2-Dichloroethene	5.00	4.91	98	3	30	80-122	
cis-1,3-Dichloropropene	5.00	5.04	101	3	30	67-121	
Dibromochloromethane	5.00	5.39	108	4	30	64-138	
Ethylbenzene	5.00	4.65	93	4	30	80-120	
Methyl tert-butyl ether	5.00	4.90	98	2	30	69-120	
Methylene Chloride	5.00	4.76	95	3	30	80-120	
Styrene	5.00	4.66	93	4	30	80-120	
Tetrachloroethene	5.00	4.76	95	4	30	80-120	
Toluene	5.00	4.63	93	4	30	80-120	
trans-1,2-Dichloroethene	5.00	4.63	93	5	30	80-122	
trans-1,3-Dichloropropene	5.00	5.33	107	4	30	61-129	
Trichloroethene	5.00	4.70	94	4	30	80-120	
Vinyl chloride	5.00	4.54	91	4	30	60-125	
Xylenes, Total	15.0	14.1	94	4	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IG31X15.D

Lab ID: 410-95715-6 MS Client ID: HD-COD-SW-15-0/1-0 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	ND	5.29	106	71-134	
1,1,1-Trichloroethane	5.00	0.25 J	4.73	90	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.03	101	75-123	
1,1,2-Trichloroethane	5.00	ND	5.11	102	80-120	
1,1-Dichloroethane	5.00	0.13 J	5.70	111	74-120	
1,1-Dichloroethene	5.00	0.12 J	4.54	88	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.13	103	80-120	
1,2-Dichloroethane	5.00	ND	5.48	110	69-122	
1,2-Dichloropropane	5.00	ND	5.70	114	80-120	
2-Butanone (MEK)	62.6	ND	58.1	93	59-141	
2-Hexanone	62.6	ND	58.9	94	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	61.3	98	55-140	
Acetone	62.6	ND	55.3	88	60-146	
Benzene	5.00	ND	5.69	114	80-120	
Bromochloromethane	5.00	ND	5.56	111	80-120	
Bromodichloromethane	5.00	ND	5.69	114	73-124	
Bromoform	5.00	ND	4.72	94	49-144	
Bromomethane	5.00	ND	6.33	126	60-136	
Carbon disulfide	5.00	ND	5.02	100	67-130	
Carbon tetrachloride	5.00	ND	4.75	95	64-141	
Chlorobenzene	5.00	ND	5.19	104	80-120	
Chloroethane	5.00	ND	6.37	127	63-120	FH
Chloroform	5.00	0.41 J	6.00	112	80-120	
Chloromethane	5.00	ND	6.00	120	80-120	
cis-1,2-Dichloroethene	5.00	1.4	7.02	112	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.14	103	67-121	
Dibromochloromethane	5.00	ND	4.95	99	64-138	
Ethylbenzene	5.00	ND	5.40	108	80-120	
Methyl tert-butyl ether	5.00	ND	5.32	106	69-120	
Methylene Chloride	5.00	ND	5.61	112	80-120	
Styrene	5.00	ND	5.57	111	80-120	
Tetrachloroethene	5.00	4.8	9.40	93	80-120	
Toluene	5.00	ND	5.09	102	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.09	102	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.16	103	61-129	
Trichloroethene	5.00	1.4	6.81	109	80-120	
Vinyl chloride	5.00	ND	6.18	123	60-125	
Xylenes, Total	15.0	ND	16.2	108	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IG31X16.D

Lab ID: 410-95715-6 MSD Client ID: HD-COD-SW-15-0/1-0 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.34	107	1	30	71-134	
1,1,1-Trichloroethane	5.00	4.70	89	1	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.52	110	9	30	75-123	
1,1,2-Trichloroethane	5.00	5.26	105	3	30	80-120	
1,1-Dichloroethane	5.00	5.80	113	2	30	74-120	
1,1-Dichloroethene	5.00	4.66	91	2	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.28	106	3	30	80-120	
1,2-Dichloroethane	5.00	5.72	114	4	30	69-122	
1,2-Dichloropropane	5.00	5.79	116	2	30	80-120	
2-Butanone (MEK)	62.6	62.4	100	7	30	59-141	
2-Hexanone	62.6	64.1	102	8	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	66.0	106	7	30	55-140	
Acetone	62.6	56.9	91	3	30	60-146	
Benzene	5.00	5.76	115	1	30	80-120	
Bromochloromethane	5.00	5.70	114	3	30	80-120	
Bromodichloromethane	5.00	5.64	113	1	30	73-124	
Bromoform	5.00	4.90	98	4	30	49-144	
Bromomethane	5.00	6.12	122	3	30	60-136	
Carbon disulfide	5.00	5.06	101	1	30	67-130	
Carbon tetrachloride	5.00	4.80	96	1	30	64-141	
Chlorobenzene	5.00	5.23	104	1	30	80-120	
Chloroethane	5.00	5.86	117	8	30	63-120	
Chloroform	5.00	6.09	113	1	30	80-120	
Chloromethane	5.00	6.16	123	3	30	80-120	FH
cis-1,2-Dichloroethene	5.00	7.04	113	0	30	80-122	
cis-1,3-Dichloropropene	5.00	5.20	104	1	30	67-121	
Dibromochloromethane	5.00	5.10	102	3	30	64-138	
Ethylbenzene	5.00	5.44	109	1	30	80-120	
Methyl tert-butyl ether	5.00	5.16	103	3	30	69-120	
Methylene Chloride	5.00	5.48	109	2	30	80-120	
Styrene	5.00	5.59	112	0	30	80-120	
Tetrachloroethene	5.00	9.51	95	1	30	80-120	
Toluene	5.00	5.18	104	2	30	80-120	
trans-1,2-Dichloroethene	5.00	5.27	105	4	30	80-122	
trans-1,3-Dichloropropene	5.00	5.29	106	2	30	61-129	
Trichloroethene	5.00	6.79	108	0	30	80-120	
Vinyl chloride	5.00	6.35	127	3	30	60-125	FH
Xylenes, Total	15.0	16.3	108	0	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Lab File ID: IG31X05.D Lab Sample ID: MB 410-291418/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19930 Date Analyzed: 08/31/2022 11:08

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-291418/4	IG31X03.D	08/31/2022 10:25
HD-COD-SW-6-0/1-0	410-95715-1	IG31X09.D	08/31/2022 12:33
HD-COD-SW-7-0/1-0	410-95715-2	IG31X10.D	08/31/2022 12:54
HD-COD-SW-8-0/1-0	410-95715-3	IG31X11.D	08/31/2022 13:15
HD-COD-SW-9-0/1-0	410-95715-4	IG31X12.D	08/31/2022 13:36
HD-COD-SW-13-0/1-0	410-95715-5	IG31X13.D	08/31/2022 13:57
HD-COD-SW-15-0/1-0	410-95715-6	IG31X14.D	08/31/2022 14:18
HD-COD-SW-15-0/1-0 MS	410-95715-6 MS	IG31X15.D	08/31/2022 14:39
HD-COD-SW-15-0/1-0 MSD	410-95715-6 MSD	IG31X16.D	08/31/2022 15:01
HD-COD-SW-16-0/1-0	410-95715-7	IG31X17.D	08/31/2022 15:22
HD-COD-SW-17-0/1-0	410-95715-8	IG31X18.D	08/31/2022 15:43
HD-COD-SW-26-0/1-0	410-95715-9	IG31X19.D	08/31/2022 16:04
HD-COD-SW-27-0/1-0	410-95715-10	IG31X20.D	08/31/2022 16:26

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Lab File ID: IS01X06.D Lab Sample ID: MB 410-291906/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19930 Date Analyzed: 09/01/2022 13:15

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-291906/5	IS01X04.D	09/01/2022 12:33
HD-QC1-0-1-2	410-95715-14	IS01X08.D	09/01/2022 14:22
HD-COD-SW-28-0/1-0	410-95715-11	IS01X09.D	09/01/2022 14:44
HD-COD-SW-29-0/1-0	410-95715-12	IS01X10.D	09/01/2022 15:05
HD-QC1-0-1-1	410-95715-13	IS01X11.D	09/01/2022 15:26

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Lab File ID: GS05X06.D Lab Sample ID: MB 410-292755/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 16334 Date Analyzed: 09/05/2022 12:05

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-292755/4	GS05X03.D	09/05/2022 10:59
	LCSD 410-292755/5	GS05X04.D	09/05/2022 11:21
HD-COD-SW-17-0/1-0 DL	410-95715-8 DL	GS05X24.D	09/05/2022 18:43

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Lab File ID: CS05X09.D Lab Sample ID: MB 410-292752/10

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 10193 Date Analyzed: 09/05/2022 13:27

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-292752/5	CS05X04.D	09/05/2022 11:34
	LCSD 410-292752/6	CS05X05.D	09/05/2022 11:57
HD-QC1-0-1-1 DL	410-95715-13 DL	CS05X30.D	09/05/2022 21:19

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Lab File ID: CG22T04.D BFB Injection Date: 08/22/2022

Instrument ID: 10193 BFB Injection Time: 15:51

Analysis Batch No.: 288300

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	45.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.7	(0.9) 1
174	Greater than 50% of mass 95	80.5	
175	5.0 - 9.0 % of mass 174	6.4	(8.0) 1
176	95.0 - 101.0 % of mass 174	79.2	(98.3) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-288300/3	CG22X02.D	08/22/2022	16:29
	IC 410-288300/4	CG22X03.D	08/22/2022	16:52
	IC 410-288300/5	CG22X04.D	08/22/2022	17:14
	IC 410-288300/6	CG22X05.D	08/22/2022	17:36
	IC 410-288300/7	CG22X06.D	08/22/2022	17:58
	IC 410-288300/8	CG22X07.D	08/22/2022	18:21
	IC 410-288300/9	CG22X08.D	08/22/2022	18:43
	IC 410-288300/13	CG22X12.D	08/22/2022	20:12
	IC 410-288300/14	CG22X13.D	08/22/2022	20:34
	IC 410-288300/15	CG22X14.D	08/22/2022	20:57
	IC 410-288300/16	CG22X15.D	08/22/2022	21:19
	IC 410-288300/17	CG22X16.D	08/22/2022	21:41
	ICIS 410-288300/18	CG22X17.D	08/22/2022	22:04
	IC 410-288300/19	CG22X18.D	08/22/2022	22:26
	ICV 410-288300/21	CG22X20.D	08/22/2022	23:10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Lab File ID: CS05T01.D BFB Injection Date: 09/05/2022

Instrument ID: 10193 BFB Injection Time: 10:11

Analysis Batch No.: 292752

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.7	
75	30.0 - 60.0 % of mass 95	44.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.9	(1.0) 1
174	Greater than 50% of mass 95	88.4	
175	5.0 - 9.0 % of mass 174	6.7	(7.6) 1
176	95.0 - 101.0 % of mass 174	87.8	(99.3) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-292752/3	CS05X02.D	09/05/2022	10:50
	LCS 410-292752/5	CS05X04.D	09/05/2022	11:34
	LCSD 410-292752/6	CS05X05.D	09/05/2022	11:57
	MB 410-292752/10	CS05X09.D	09/05/2022	13:27
HD-QC1-0-1-1 DL	410-95715-13 DL	CS05X30.D	09/05/2022	21:19

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Lab File ID: GG16T01.D BFB Injection Date: 08/16/2022

Instrument ID: 16334 BFB Injection Time: 13:07

Analysis Batch No.: 286414

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	44.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	96.9	
175	5.0 - 9.0 % of mass 174	7.4	(7.7) 1
176	95.0 - 101.0 % of mass 174	95.5	(98.6) 1
177	5.0 - 9.0 % of mass 176	6.1	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-286414/3	GG16X02.D	08/16/2022	13:45
	IC 410-286414/4	GG16X03.D	08/16/2022	14:07
	IC 410-286414/5	GG16X04.D	08/16/2022	14:29
	IC 410-286414/6	GG16X05.D	08/16/2022	14:51
	IC 410-286414/7	GG16X06.D	08/16/2022	15:13
	IC 410-286414/8	GG16X07.D	08/16/2022	15:35
	IC 410-286414/9	GG16X08.D	08/16/2022	15:58
	IC 410-286414/13	GG16X12.D	08/16/2022	17:26
	IC 410-286414/14	GG16X13.D	08/16/2022	17:48
	IC 410-286414/15	GG16X14.D	08/16/2022	18:10
	IC 410-286414/16	GG16X15.D	08/16/2022	18:32
	IC 410-286414/17	GG16X16.D	08/16/2022	18:54
	ICIS 410-286414/18	GG16X17.D	08/16/2022	19:17
	IC 410-286414/19	GG16X18.D	08/16/2022	19:38
	ICV 410-286414/21	GG16X20.D	08/16/2022	20:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Lab File ID: GS05T01.D BFB Injection Date: 09/05/2022

Instrument ID: 16334 BFB Injection Time: 10:01

Analysis Batch No.: 292755

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	45.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	96.1	
175	5.0 - 9.0 % of mass 174	7.4	(7.7) 1
176	95.0 - 101.0 % of mass 174	95.7	(99.6) 1
177	5.0 - 9.0 % of mass 176	6.5	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-292755/3	GS05X02.D	09/05/2022	10:37
	LCS 410-292755/4	GS05X03.D	09/05/2022	10:59
	LCSD 410-292755/5	GS05X04.D	09/05/2022	11:21
	MB 410-292755/7	GS05X06.D	09/05/2022	12:05
HD-COD-SW-17-0/1-0 DL	410-95715-8 DL	GS05X24.D	09/05/2022	18:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Lab File ID: IL11T01.D BFB Injection Date: 07/11/2022

Instrument ID: 19930 BFB Injection Time: 15:02

Analysis Batch No.: 274212

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	46.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.9	(1.0) 1
174	Greater than 50% of mass 95	88.9	
175	5.0 - 9.0 % of mass 174	7.0	(7.9) 1
176	95.0 - 101.0 % of mass 174	85.3	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-274212/12	IL11X12.D	07/11/2022	15:36
	ICIS 410-274212/13	IL11X13.D	07/11/2022	15:57
	IC 410-274212/14	IL11X14.D	07/11/2022	16:18
	IC 410-274212/15	IL11X15.D	07/11/2022	16:39
	IC 410-274212/16	IL11X16.D	07/11/2022	17:00
	IC 410-274212/17	IL11X17.D	07/11/2022	17:22
	IC 410-274212/18	IL11X18.D	07/11/2022	17:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Lab File ID: IL12T01.D BFB Injection Date: 07/12/2022

Instrument ID: 19930 BFB Injection Time: 14:39

Analysis Batch No.: 274690

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.4	
75	30.0 - 60.0 % of mass 95	45.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	1.1	(1.3) 1
174	Greater than 50% of mass 95	86.3	
175	5.0 - 9.0 % of mass 174	6.0	(7.0) 1
176	95.0 - 101.0 % of mass 174	84.1	(97.4) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 410-274690/6	IL12X06.D	07/12/2022	16:20

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Lab File ID: IG31T02.D BFB Injection Date: 08/31/2022

Instrument ID: 19930 BFB Injection Time: 09:29

Analysis Batch No.: 291418

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.9	
75	30.0 - 60.0 % of mass 95	47.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	1.1	(1.3) 1
174	Greater than 50% of mass 95	83.3	
175	5.0 - 9.0 % of mass 174	6.5	(7.8) 1
176	95.0 - 101.0 % of mass 174	80.5	(96.7) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-291418/3	IG31X02.D	08/31/2022	10:04
	LCS 410-291418/4	IG31X03.D	08/31/2022	10:25
	MB 410-291418/6	IG31X05.D	08/31/2022	11:08
HD-COD-SW-6-0/1-0	410-95715-1	IG31X09.D	08/31/2022	12:33
HD-COD-SW-7-0/1-0	410-95715-2	IG31X10.D	08/31/2022	12:54
HD-COD-SW-8-0/1-0	410-95715-3	IG31X11.D	08/31/2022	13:15
HD-COD-SW-9-0/1-0	410-95715-4	IG31X12.D	08/31/2022	13:36
HD-COD-SW-13-0/1-0	410-95715-5	IG31X13.D	08/31/2022	13:57
HD-COD-SW-15-0/1-0	410-95715-6	IG31X14.D	08/31/2022	14:18
HD-COD-SW-15-0/1-0 MS	410-95715-6 MS	IG31X15.D	08/31/2022	14:39
HD-COD-SW-15-0/1-0 MSD	410-95715-6 MSD	IG31X16.D	08/31/2022	15:01
HD-COD-SW-16-0/1-0	410-95715-7	IG31X17.D	08/31/2022	15:22
HD-COD-SW-17-0/1-0	410-95715-8	IG31X18.D	08/31/2022	15:43
HD-COD-SW-26-0/1-0	410-95715-9	IG31X19.D	08/31/2022	16:04
HD-COD-SW-27-0/1-0	410-95715-10	IG31X20.D	08/31/2022	16:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Lab File ID: IS01T01.D BFB Injection Date: 09/01/2022

Instrument ID: 19930 BFB Injection Time: 11:15

Analysis Batch No.: 291906

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.7	
75	30.0 - 60.0 % of mass 95	46.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	1.2	(1.3) 1
174	Greater than 50% of mass 95	91.6	
175	5.0 - 9.0 % of mass 174	6.5	(7.1) 1
176	95.0 - 101.0 % of mass 174	89.0	(97.1) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-291906/3	IS01X02.D	09/01/2022	11:50
	LCS 410-291906/5	IS01X04.D	09/01/2022	12:33
	MB 410-291906/7	IS01X06.D	09/01/2022	13:15
HD-QC1-0-1-2	410-95715-14	IS01X08.D	09/01/2022	14:22
HD-COD-SW-28-0/1-0	410-95715-11	IS01X09.D	09/01/2022	14:44
HD-COD-SW-29-0/1-0	410-95715-12	IS01X10.D	09/01/2022	15:05
HD-QC1-0-1-1	410-95715-13	IS01X11.D	09/01/2022	15:26

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: ICIS 410-288300/18 Date Analyzed: 08/22/2022 22:04

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CG22X17.D Heated Purge: (Y/N) N

Calibration ID: 41918

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		129707	3.75	1988424	7.20	1523479	10.84
UPPER LIMIT		259414	4.25	3976848	7.70	3046958	11.34
LOWER LIMIT		64854	3.25	994212	6.70	761740	10.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-288300/21		120148	3.74	1986750	7.19	1518942	10.84
CCVIS 410-292752/3		135825	3.75	1842742	7.19	1449884	10.83

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: ICIS 410-288300/18 Date Analyzed: 08/22/2022 22:04

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CG22X17.D Heated Purge: (Y/N) N

Calibration ID: 41918

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		900908	12.77				
UPPER LIMIT		1801816	13.27				
LOWER LIMIT		450454	12.27				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-288300/21		882310	12.77				
CCVIS 410-292752/3		891578	12.77				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: CCVIS 410-292752/3 Date Analyzed: 09/05/2022 10:50

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CS05X02.D Heated Purge: (Y/N) N

Calibration ID: 41918

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		135825	3.75	1842742	7.19	1449884	10.83
UPPER LIMIT		271650	4.25	3685484	7.69	2899768	11.33
LOWER LIMIT		67913	3.25	921371	6.69	724942	10.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-292752/5		130079	3.74	1798989	7.19	1406735	10.83
LCSD 410-292752/6		132728	3.72	1828221	7.18	1416794	10.83
MB 410-292752/10		126977	3.73	1792297	7.19	1396432	10.83
410-95715-13 DL	HD-QC1-0-1-1 DL	113923	3.74	1850443	7.18	1423047	10.83

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: CCVIS 410-292752/3 Date Analyzed: 09/05/2022 10:50

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CS05X02.D Heated Purge: (Y/N) N

Calibration ID: 41918

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		891578	12.77				
UPPER LIMIT		1783156	13.27				
LOWER LIMIT		445789	12.27				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-292752/5		844025	12.77				
LCSD 410-292752/6		835911	12.77				
MB 410-292752/10		799518	12.77				
410-95715-13 DL	HD-QC1-0-1-1 DL	816475	12.77				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: ICIS 410-286414/18 Date Analyzed: 08/16/2022 19:17

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GG16X17.D Heated Purge: (Y/N) N

Calibration ID: 41911

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		142576	4.11	2328270	7.56	1837007	11.07
UPPER LIMIT		285152	4.61	4656540	8.06	3674014	11.57
LOWER LIMIT		71288	3.61	1164135	7.06	918504	10.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-286414/21		132771	4.12	2350459	7.56	1861581	11.07
CCVIS 410-292755/3		136522	4.12	2135658	7.56	1743803	11.07

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: ICIS 410-286414/18 Date Analyzed: 08/16/2022 19:17

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GG16X17.D Heated Purge: (Y/N) N

Calibration ID: 41911

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1096296	12.96				
UPPER LIMIT		2192592	13.46				
LOWER LIMIT		548148	12.46				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-286414/21		1110282	12.96				
CCVIS 410-292755/3		1064022	12.96				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: CCVIS 410-292755/3 Date Analyzed: 09/05/2022 10:37

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GS05X02.D Heated Purge: (Y/N) N

Calibration ID: 41911

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		136522	4.12	2135658	7.56	1743803	11.07
UPPER LIMIT		273044	4.62	4271316	8.06	3487606	11.57
LOWER LIMIT		68261	3.62	1067829	7.06	871902	10.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-292755/4		134650	4.12	2332352	7.56	1861805	11.07
LCSD 410-292755/5		175013	4.12	2427428	7.56	1942988	11.07
MB 410-292755/7		146819	4.11	2163456	7.56	1743854	11.07
410-95715-8 DL	HD-COD-SW-17-0/1-0 DL	123898	4.11	2174570	7.56	1736289	11.07

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: CCVIS 410-292755/3 Date Analyzed: 09/05/2022 10:37

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GS05X02.D Heated Purge: (Y/N) N

Calibration ID: 41911

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1064022	12.96				
UPPER LIMIT		2128044	13.46				
LOWER LIMIT		532011	12.46				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-292755/4		1130697	12.96				
LCSD 410-292755/5		1172062	12.96				
MB 410-292755/7		1035353	12.96				
410-95715-8 DL	HD-COD-SW-17-0/1-0 DL	1033766	12.96				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: ICIS 410-274212/13 Date Analyzed: 07/11/2022 15:57

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IL11X13.D Heated Purge: (Y/N) N

Calibration ID: 40830

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		169786	4.23	2357451	7.70	1868480	11.16
UPPER LIMIT		339572	4.73	4714902	8.20	3736960	11.66
LOWER LIMIT		84893	3.73	1178726	7.20	934240	10.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-274690/6		157301	4.21	2175639	7.71	1724781	11.16
CCVIS 410-291418/3		173693	4.25	1893540	7.70	1585808	11.16
CCVIS 410-291906/3		218824	4.25	2693523	7.71	2069025	11.16

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: ICIS 410-274212/13 Date Analyzed: 07/11/2022 15:57

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IL11X13.D Heated Purge: (Y/N) N

Calibration ID: 40830

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1053034	13.04				
UPPER LIMIT		2106068	13.54				
LOWER LIMIT		526517	12.54				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-274690/6		967569	13.04				
CCVIS 410-291418/3		930931	13.04				
CCVIS 410-291906/3		1082615	13.04				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: CCVIS 410-291418/3 Date Analyzed: 08/31/2022 10:04

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IG31X02.D Heated Purge: (Y/N) N

Calibration ID: 40830

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		173693	4.25	1893540	7.70	1585808	11.16
UPPER LIMIT		347386	4.75	3787080	8.20	3171616	11.66
LOWER LIMIT		86847	3.75	946770	7.20	792904	10.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-291418/4		171074	4.23	1936967	7.71	1595220	11.16
MB 410-291418/6		148940	4.25	1811520	7.71	1520443	11.16
410-95715-1	HD-COD-SW-6-0/1-0	147991	4.24	1725659	7.70	1422632	11.16
410-95715-2	HD-COD-SW-7-0/1-0	147348	4.23	1718950	7.70	1411160	11.16
410-95715-3	HD-COD-SW-8-0/1-0	140535	4.24	1699760	7.71	1441188	11.16
410-95715-4	HD-COD-SW-9-0/1-0	138065	4.25	1631155	7.71	1341786	11.16
410-95715-5	HD-COD-SW-13-0/1-0	142370	4.26	1606048	7.71	1319799	11.16
410-95715-6	HD-COD-SW-15-0/1-0	135030	4.25	1637827	7.71	1367582	11.16
410-95715-6 MS	HD-COD-SW-15-0/1-0 MS	173162	4.25	1864401	7.70	1562914	11.16
410-95715-6 MSD	HD-COD-SW-15-0/1-0 MSD	170447	4.23	1965494	7.71	1611668	11.16
410-95715-7	HD-COD-SW-16-0/1-0	146236	4.27	1762994	7.71	1446939	11.16
410-95715-8	HD-COD-SW-17-0/1-0	145459	4.25	1716777	7.71	1446293	11.16
410-95715-9	HD-COD-SW-26-0/1-0	152748	4.25	1692072	7.71	1399976	11.16
410-95715-10	HD-COD-SW-27-0/1-0	145186	4.23	1759481	7.70	1468917	11.16

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: CCVIS 410-291418/3 Date Analyzed: 08/31/2022 10:04

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IG31X02.D Heated Purge: (Y/N) N

Calibration ID: 40830

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		930931	13.04				
UPPER LIMIT		1861862	13.54				
LOWER LIMIT		465466	12.54				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-291418/4		922905	13.04				
MB 410-291418/6		820712	13.04				
410-95715-1	HD-COD-SW-6-0/1-0	791969	13.04				
410-95715-2	HD-COD-SW-7-0/1-0	753309	13.04				
410-95715-3	HD-COD-SW-8-0/1-0	766627	13.04				
410-95715-4	HD-COD-SW-9-0/1-0	715718	13.04				
410-95715-5	HD-COD-SW-13-0/1-0	704711	13.04				
410-95715-6	HD-COD-SW-15-0/1-0	738695	13.04				
410-95715-6 MS	HD-COD-SW-15-0/1-0 MS	881413	13.04				
410-95715-6 MSD	HD-COD-SW-15-0/1-0 MSD	918133	13.04				
410-95715-7	HD-COD-SW-16-0/1-0	798075	13.04				
410-95715-8	HD-COD-SW-17-0/1-0	764583	13.04				
410-95715-9	HD-COD-SW-26-0/1-0	735853	13.04				
410-95715-10	HD-COD-SW-27-0/1-0	821923	13.04				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: CCVIS 410-291906/3 Date Analyzed: 09/01/2022 11:50

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IS01X02.D Heated Purge: (Y/N) N

Calibration ID: 40830

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		218824	4.25	2693523	7.71	2069025	11.16
UPPER LIMIT		437648	4.75	5387046	8.21	4138050	11.66
LOWER LIMIT		109412	3.75	1346762	7.21	1034513	10.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-291906/5		241686	4.25	2851535	7.70	1995011	11.16
MB 410-291906/7		183168	4.24	2552567	7.71	1931627	11.16
410-95715-14	HD-QC1-0-1-2	194238	4.25	2520601	7.70	1835343	11.16
410-95715-11	HD-COD-SW-28-0/1-0	168627	4.24	2542892	7.71	1871351	11.16
410-95715-12	HD-COD-SW-29-0/1-0	177443	4.25	2530490	7.71	1897307	11.16
410-95715-13	HD-QC1-0-1-1	174940	4.25	2316796	7.71	1873036	11.16

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-95715-1

SDG No.:

Sample No.: CCVIS 410-291906/3 Date Analyzed: 09/01/2022 11:50

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IS01X02.D Heated Purge: (Y/N) N

Calibration ID: 40830

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1082615	13.04				
UPPER LIMIT		2165230	13.54				
LOWER LIMIT		541308	12.54				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-291906/5		1198512	13.04				
MB 410-291906/7		1016254	13.04				
410-95715-14	HD-QC1-0-1-2	937947	13.04				
410-95715-11	HD-COD-SW-28-0/1-0	1010338	13.04				
410-95715-12	HD-COD-SW-29-0/1-0	990958	13.04				
410-95715-13	HD-QC1-0-1-1	946307	13.04				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-95715-1

Matrix: Water Lab File ID: IG31X09.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:30

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND	cn	0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND	cn	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND	cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND	cn	0.50	0.080
75-34-3	1,1-Dichloroethane	ND	cn	0.50	0.10
75-35-4	1,1-Dichloroethene	ND	cn	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND	cn	0.50	0.080
107-06-2	1,2-Dichloroethane	ND	cn	0.50	0.070
78-87-5	1,2-Dichloropropane	ND	cn	0.50	0.10
78-93-3	2-Butanone (MEK)	ND	cn	5.0	1.0
591-78-6	2-Hexanone	ND	cn	5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	cn	5.0	1.0
67-64-1	Acetone	1.3	J cn	5.0	1.0
71-43-2	Benzene	ND	cn	0.50	0.10
74-97-5	Bromochloromethane	ND	cn	0.50	0.080
75-27-4	Bromodichloromethane	ND	cn	0.50	0.080
75-25-2	Bromoform	ND	cn	1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND	cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND	cn	0.50	0.10
108-90-7	Chlorobenzene	ND	cn	0.50	0.070
75-00-3	Chloroethane	ND	^c cn	0.50	0.10
67-66-3	Chloroform	ND	cn	0.50	0.090
74-87-3	Chloromethane	ND	^c cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND	cn	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND	cn	0.50	0.10
124-48-1	Dibromochloromethane	ND	cn	0.50	0.080
100-41-4	Ethylbenzene	ND	cn	0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND	cn	0.50	0.080
75-09-2	Methylene Chloride	ND	cn	0.50	0.10
100-42-5	Styrene	ND	cn	0.50	0.070
127-18-4	Tetrachloroethene	ND	cn	0.50	0.20
108-88-3	Toluene	ND	cn	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-95715-1

Matrix: Water Lab File ID: IG31X09.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:30

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND	cn	0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND	cn	0.50	0.080
79-01-6	Trichloroethene	ND	cn	0.50	0.080
75-01-4	Vinyl chloride	ND	^c cn	0.50	0.10
1330-20-7	Xylenes, Total	ND	cn	1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106	cn	80-120
460-00-4	4-Bromofluorobenzene (Surr)	95	cn	80-120
1868-53-7	Dibromofluoromethane (Surr)	111	cn	80-120
2037-26-5	Toluene-d8 (Surr)	96	cn	80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X09.D
Lims ID: 410-95715-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 12:33:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-010
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 09:27:40 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:29:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.148	2.136	0.012	1	2488	0.0412	
5 Vinyl chloride	62		2.245				ND	
7 Bromomethane	94		2.593				ND	7
8 Chloroethane	64		2.696				ND	
15 1,1-Dichloroethene	96		3.556				ND	
16 Acetone	43	3.611	3.574	0.037	99	10209	1.25	
20 Carbon disulfide	76		3.861				ND	7
25 Methylene Chloride	84		4.221				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.239	4.251	-0.012	19	147991	50.0	
29 Methyl tert-butyl ether	73		4.635				ND	
30 trans-1,2-Dichloroethene	96		4.647				ND	
32 1,1-Dichloroethane	63		5.293				ND	
38 2-Butanone (MEK)	43		6.086				ND	7
39 cis-1,2-Dichloroethene	96		6.123				ND	
46 Chlorobromomethane	128		6.452				ND	
48 Chloroform	83	6.592	6.604	-0.012	87	3423	0.0384	
$ 49 Dibromofluoromethane (Surr)	113	6.818	6.811	0.007	93	481707	11.1	
50 1,1,1-Trichloroethane	97		6.824				ND	
54 Carbon tetrachloride	117		7.043				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	64	94281	10.6	
57 Benzene	78		7.299				ND	7
58 1,2-Dichloroethane	62		7.372				ND	
* 61 Fluorobenzene (IS)	96	7.702	7.702	0.000	99	1725659	10.0	
64 Trichloroethene	95	8.195	8.183	0.012	92	3142	0.0565	
66 1,2-Dichloropropane	63		8.506				ND	
71 Dichlorobromomethane	83		8.854				ND	
76 cis-1,3-Dichloropropene	75		9.396				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	1766629	9.57	
79 Toluene	92	9.786	9.780	0.006	98	9784	0.0671	
97 trans-1,3-Dichloropropene	75		10.036				ND	
100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166		10.329				ND	7
103 2-Hexanone	43		10.445				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1422632	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	91	640698	9.46	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	791969	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

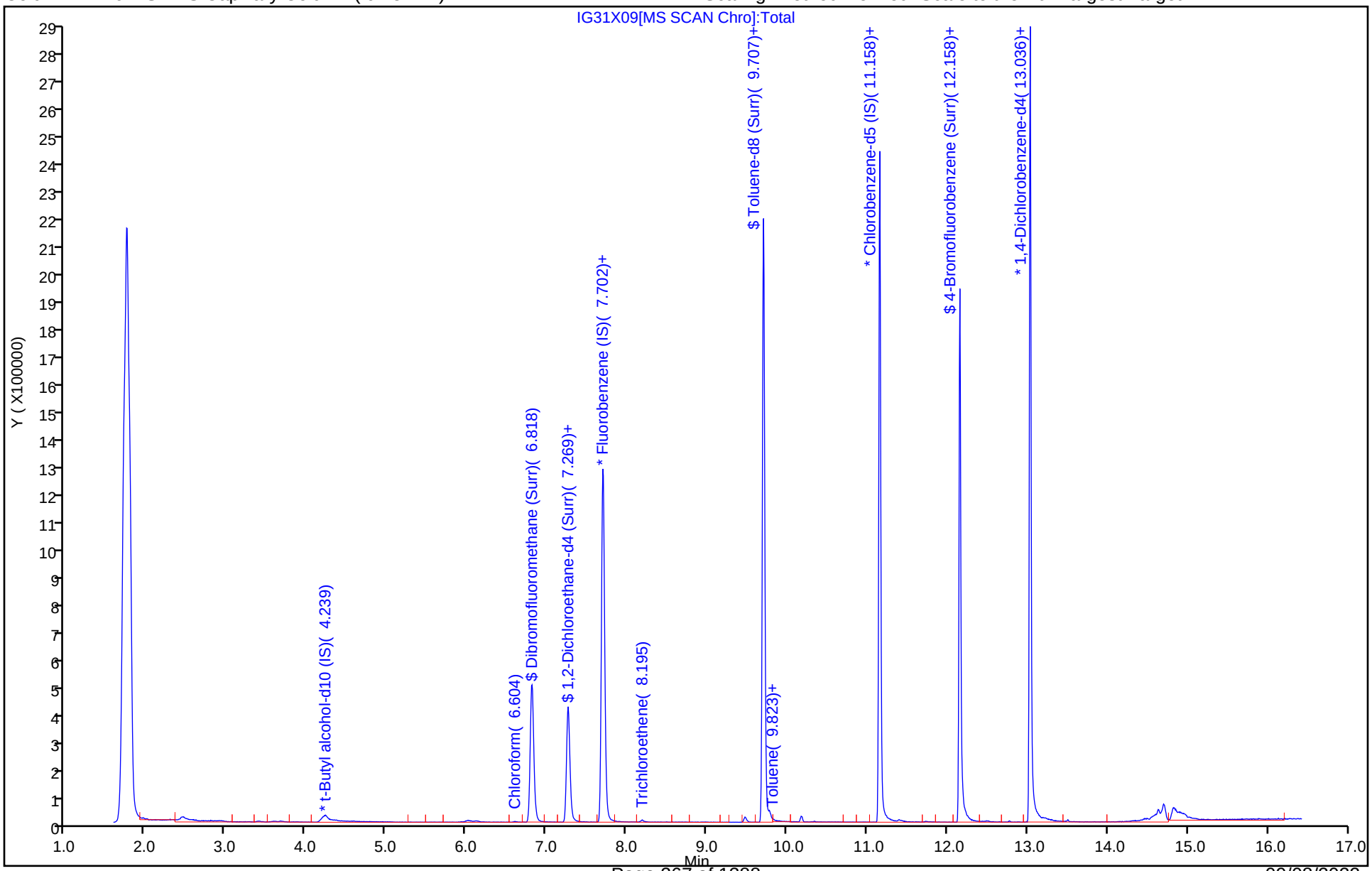
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Sep-2022 09:29:22 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X09.D				
Injection Date:	31-Aug-2022 12:33:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-1	Lab Sample ID:	410-95715-1	Worklist Smp#:	10
Client ID:	HD-COD-SW-6-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X09.D				
Lims ID:	410-95715-A-1				
Client ID:	HD-COD-SW-6-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 12:33:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-010				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 09:27:40	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

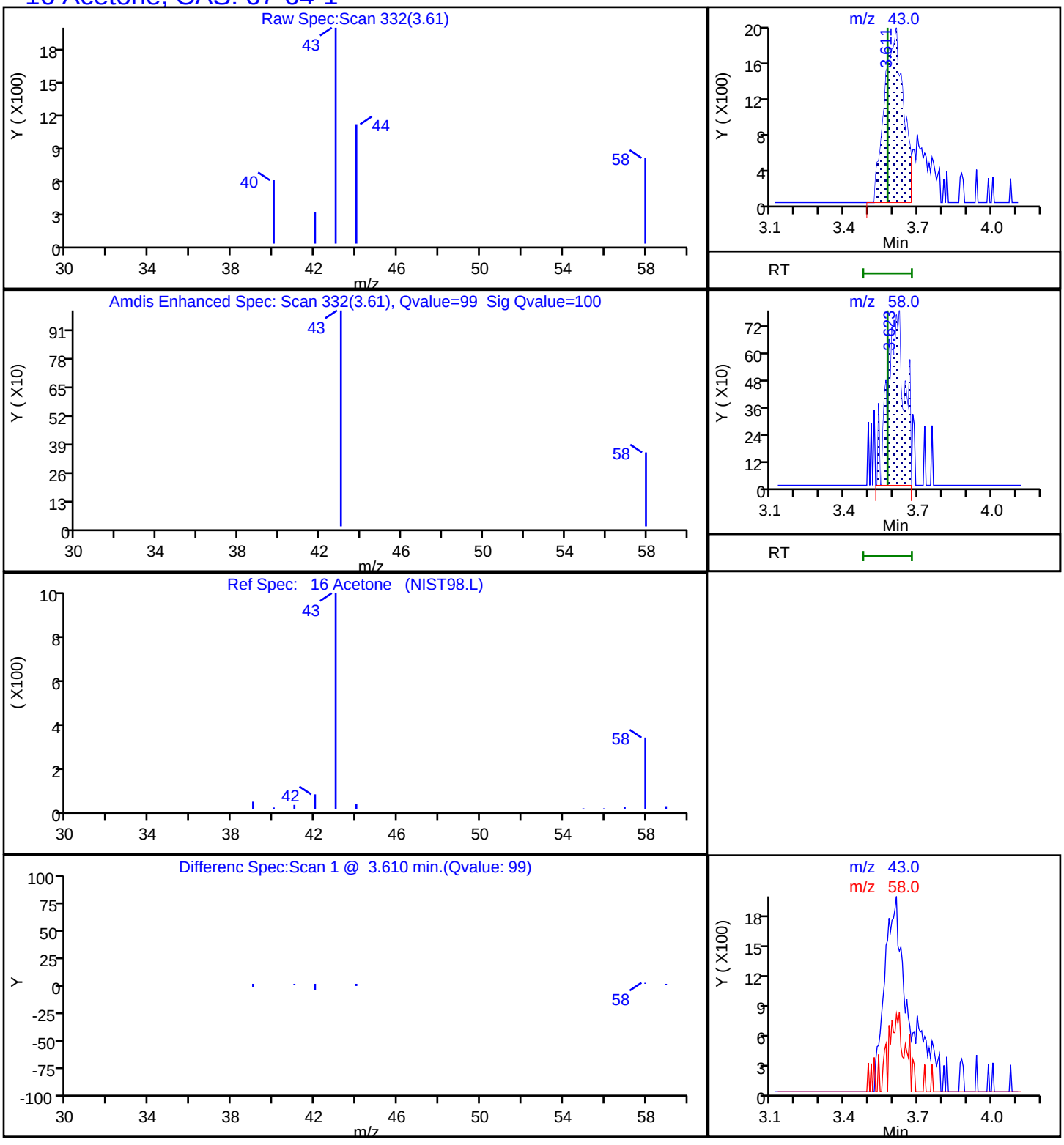
First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:29:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.1	111.19
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.95
$ 78 Toluene-d8 (Surr)	10.0	9.57	95.69
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.46	94.65

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X09.D				
Injection Date:	31-Aug-2022 12:33:30	Instrument ID:	19930		
Lims ID:	410-95715-A-1	Lab Sample ID:	410-95715-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-95715-2

Matrix: Water Lab File ID: IG31X10.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 12:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.7	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND	^c cn	0.50	0.10
67-66-3	Chloroform	0.10	J	0.50	0.090
74-87-3	Chloromethane	ND	^c cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-95715-2

Matrix: Water Lab File ID: IG31X10.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 12:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.16	J	0.50	0.080
75-01-4	Vinyl chloride	ND	^c cn	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X10.D
Lims ID: 410-95715-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 12:54:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-011
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 12:59:58 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:30:27

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	4 Chloromethane	50	2.135	2.136	-0.001	1	3973	0.0661	
	5 Vinyl chloride	62		2.245				ND	
	7 Bromomethane	94		2.593				ND	
	8 Chloroethane	64		2.696				ND	
	15 1,1-Dichloroethene	96		3.556				ND	
	16 Acetone	43	3.617	3.574	0.043	98	13439	1.65	
	20 Carbon disulfide	76	3.861	3.861	0.000	94	8361	0.0767	
	25 Methylene Chloride	84		4.221				ND	
*	26 t-Butyl alcohol-d10 (IS)	65	4.233	4.251	-0.018	22	147348	50.0	
	29 Methyl tert-butyl ether	73		4.635				ND	
	30 trans-1,2-Dichloroethene	96		4.647				ND	
	32 1,1-Dichloroethane	63		5.293				ND	
	38 2-Butanone (MEK)	43		6.086				ND	7
	39 cis-1,2-Dichloroethene	96	6.135	6.123	0.012	63	8107	0.1499	
	46 Chlorobromomethane	128		6.452				ND	
	48 Chloroform	83	6.610	6.604	0.006	89	9327	0.1050	
$	49 Dibromofluoromethane (Surr)	113	6.817	6.811	0.006	94	477651	11.1	
	50 1,1,1-Trichloroethane	97		6.824				ND	
	54 Carbon tetrachloride	117		7.043				ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	56	92689	10.5	
	57 Benzene	78		7.299				ND	7
	58 1,2-Dichloroethane	62		7.372				ND	
*	61 Fluorobenzene (IS)	96	7.701	7.702	-0.001	99	1718950	10.0	
	64 Trichloroethene	95	8.183	8.183	0.000	96	8881	0.1603	M
	66 1,2-Dichloropropane	63		8.506				ND	
	71 Dichlorobromomethane	83		8.854				ND	
	76 cis-1,3-Dichloropropene	75		9.396				ND	
	77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	
$	78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	1772976	9.68	
	79 Toluene	92	9.780	9.780	0.000	96	10660	0.0737	
	97 trans-1,3-Dichloropropene	75		10.036				ND	
	100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.347	10.329	0.018	89	3934	0.0569	
103 2-Hexanone	43		10.445				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1411160	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	91	633797	9.44	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	753309	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

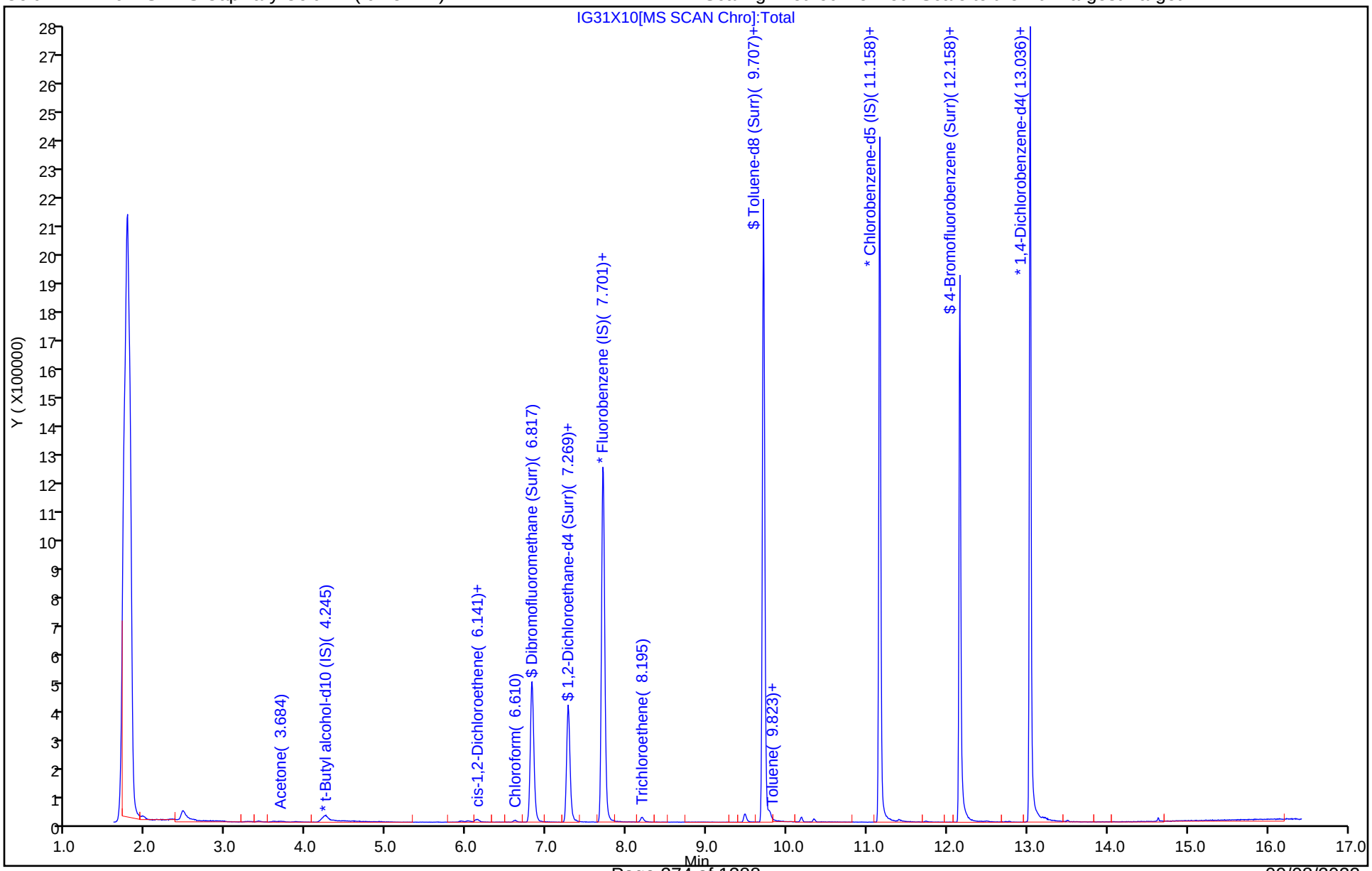
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Sep-2022 12:59:58 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X10.D				
Injection Date:	31-Aug-2022 12:54:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-2	Lab Sample ID:	410-95715-2	Worklist Smp#:	11
Client ID:	HD-COD-SW-7-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X10.D				
Lims ID:	410-95715-A-2				
Client ID:	HD-COD-SW-7-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 12:54:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-011				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 12:59:58	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

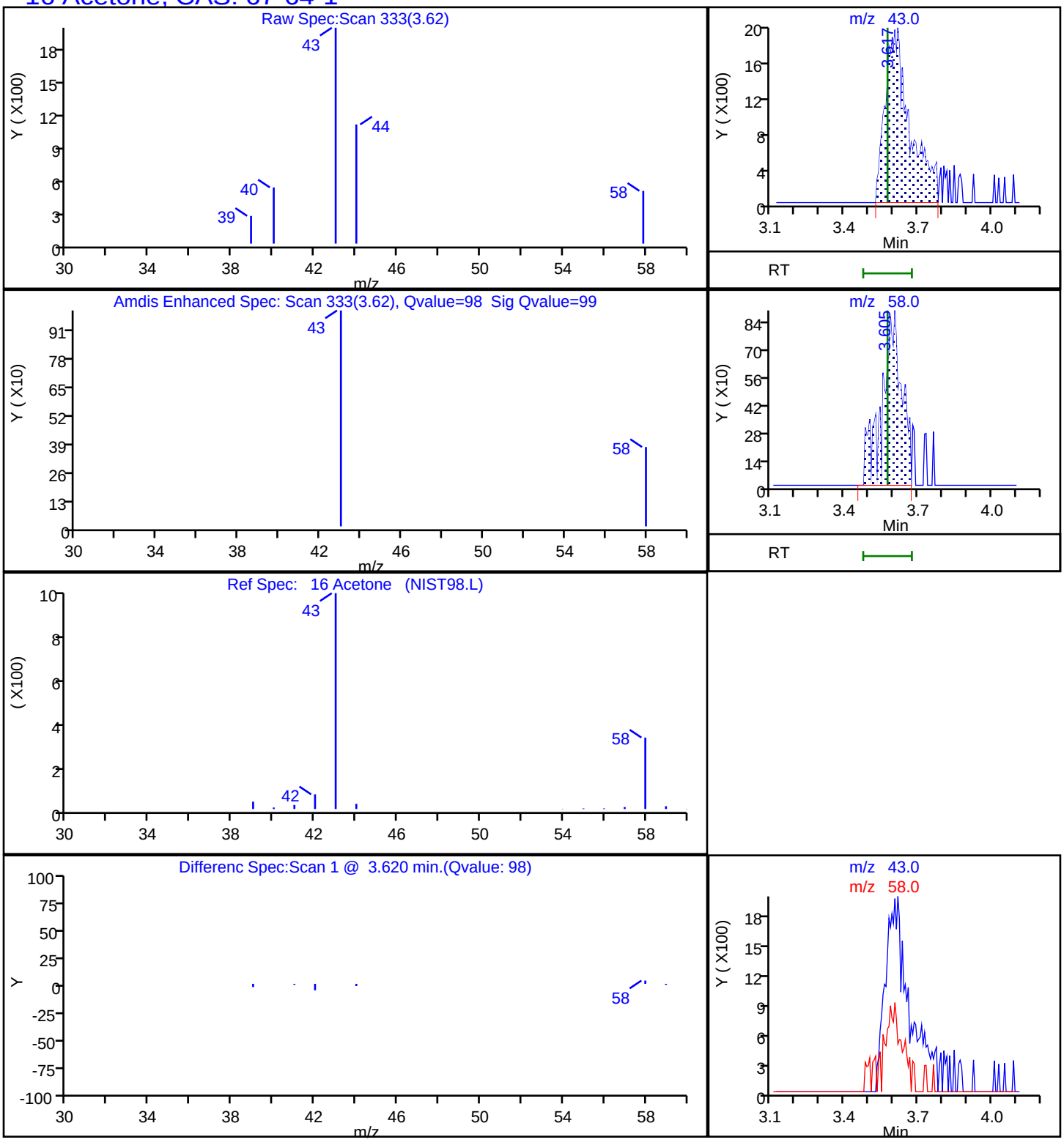
First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:30:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.1	110.68
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.57
$ 78 Toluene-d8 (Surr)	10.0	9.68	96.82
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.44	94.39

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X10.D				
Injection Date:	31-Aug-2022 12:54:30	Instrument ID:	19930		
Lims ID:	410-95715-A-2	Lab Sample ID:	410-95715-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

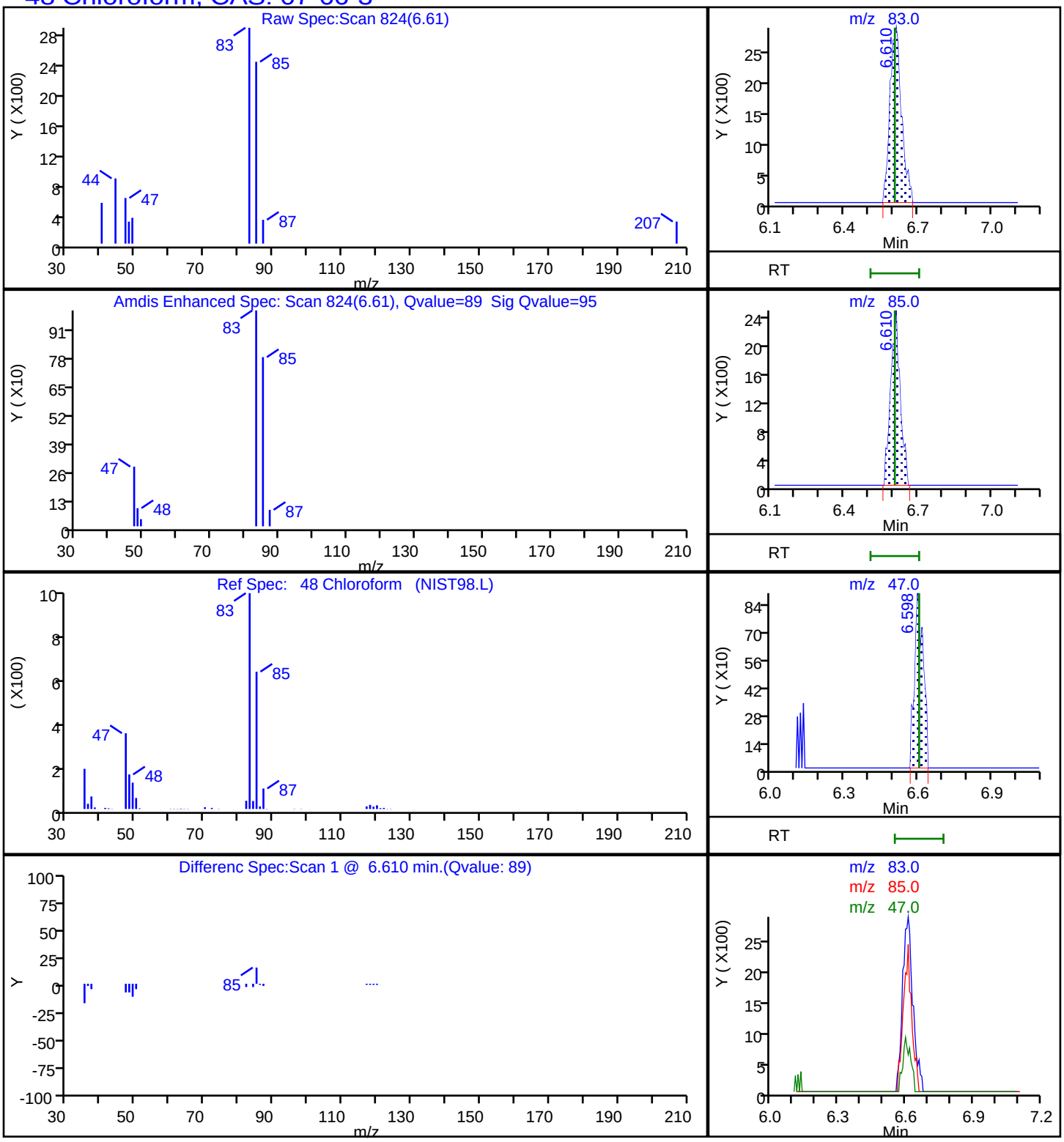


Report Date: 01-Sep-2022 12:59:58 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X10.D				
Injection Date:	31-Aug-2022 12:54:30	Instrument ID:	19930		
Lims ID:	410-95715-A-2	Lab Sample ID:	410-95715-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

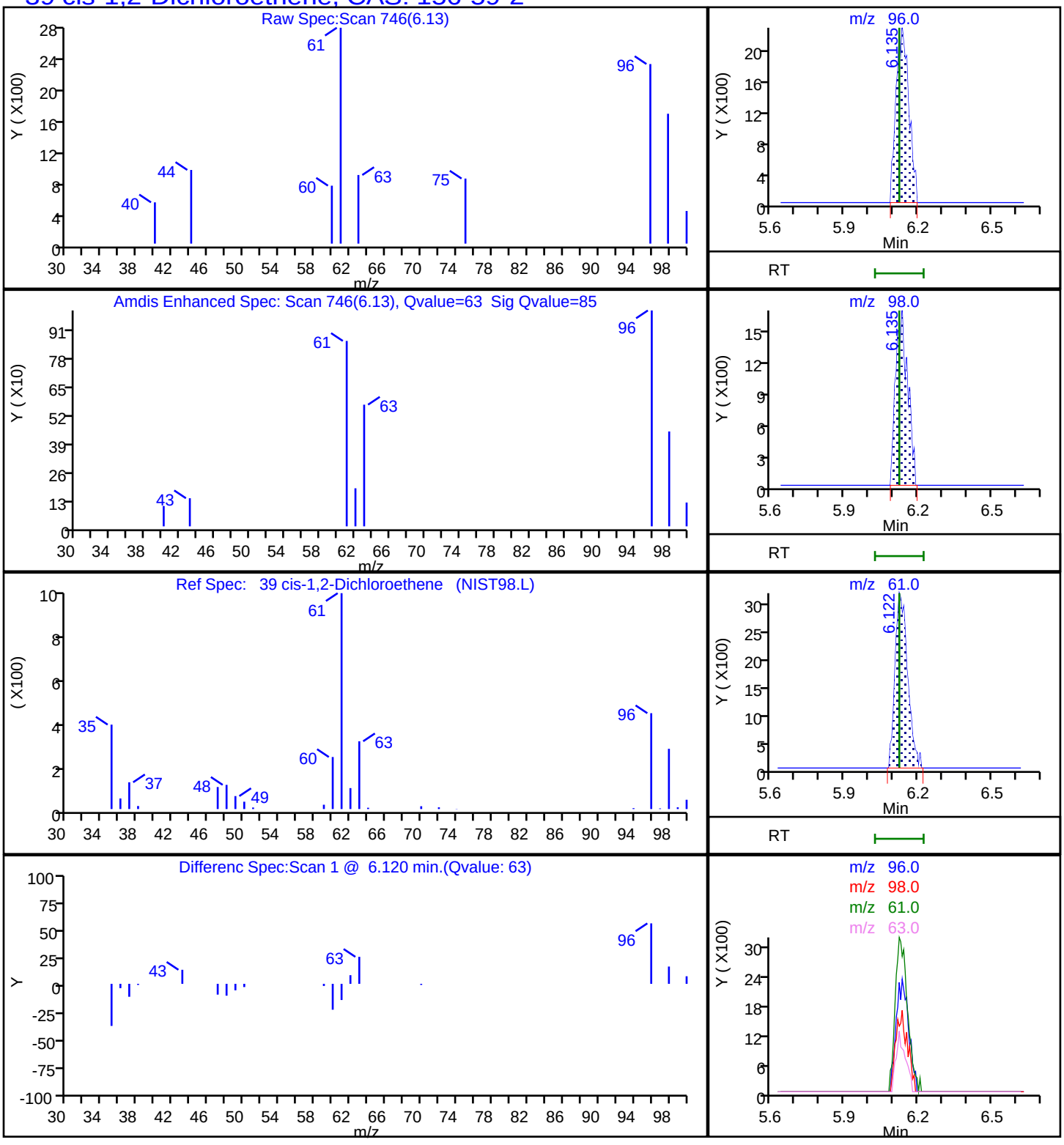
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X10.D				
Injection Date:	31-Aug-2022 12:54:30	Instrument ID:	19930		
Lims ID:	410-95715-A-2	Lab Sample ID:	410-95715-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

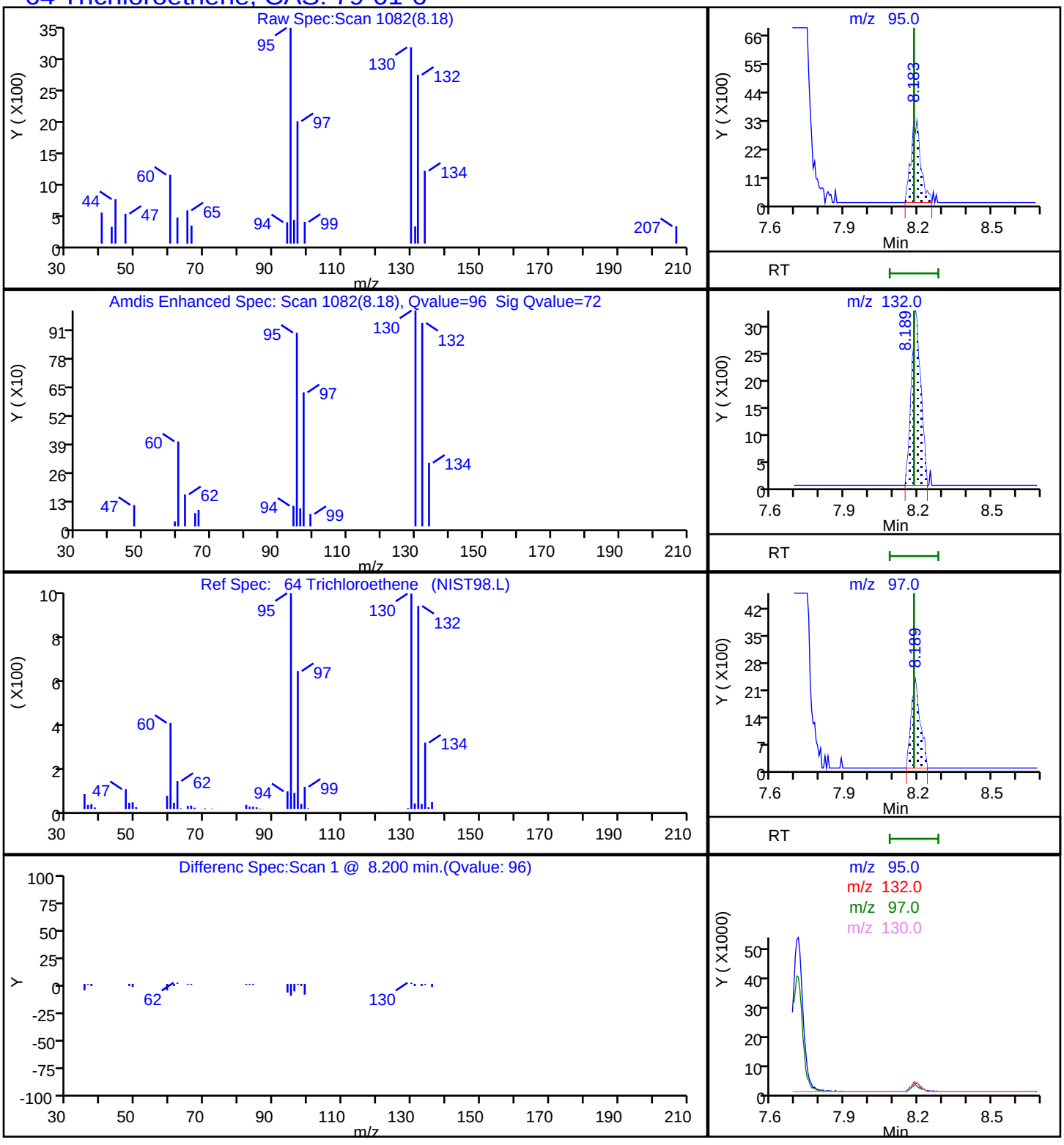


Report Date: 01-Sep-2022 12:59:58 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X10.D				
Injection Date:	31-Aug-2022 12:54:30	Instrument ID:	19930		
Lims ID:	410-95715-A-2	Lab Sample ID:	410-95715-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

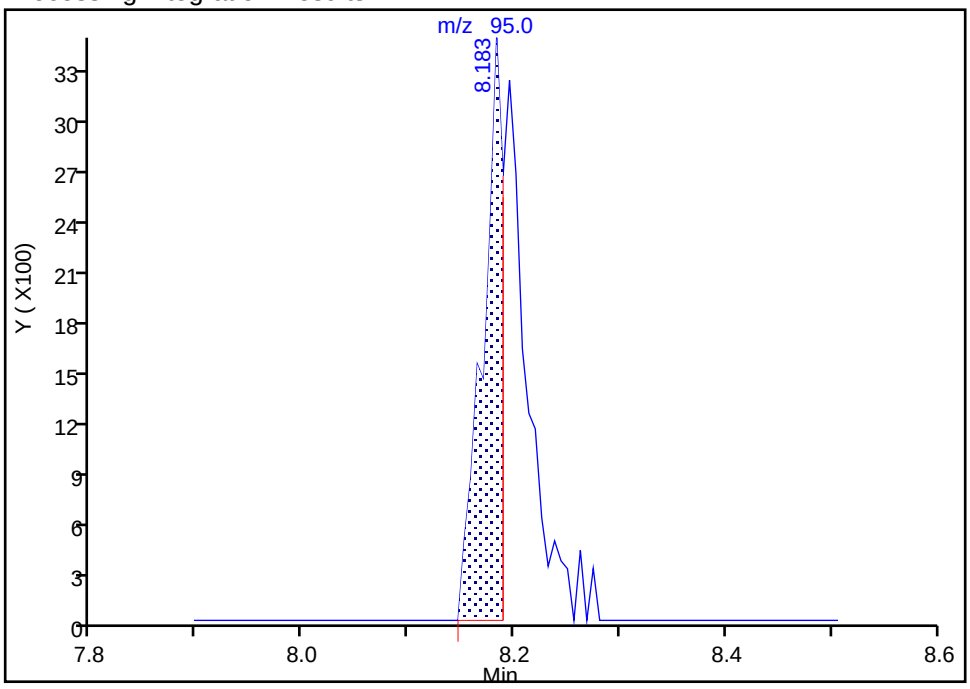
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X10.D				
Injection Date:	31-Aug-2022 12:54:30	Instrument ID:	19930		
Lims ID:	410-95715-A-2	Lab Sample ID:	410-95715-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6

Signal: 1

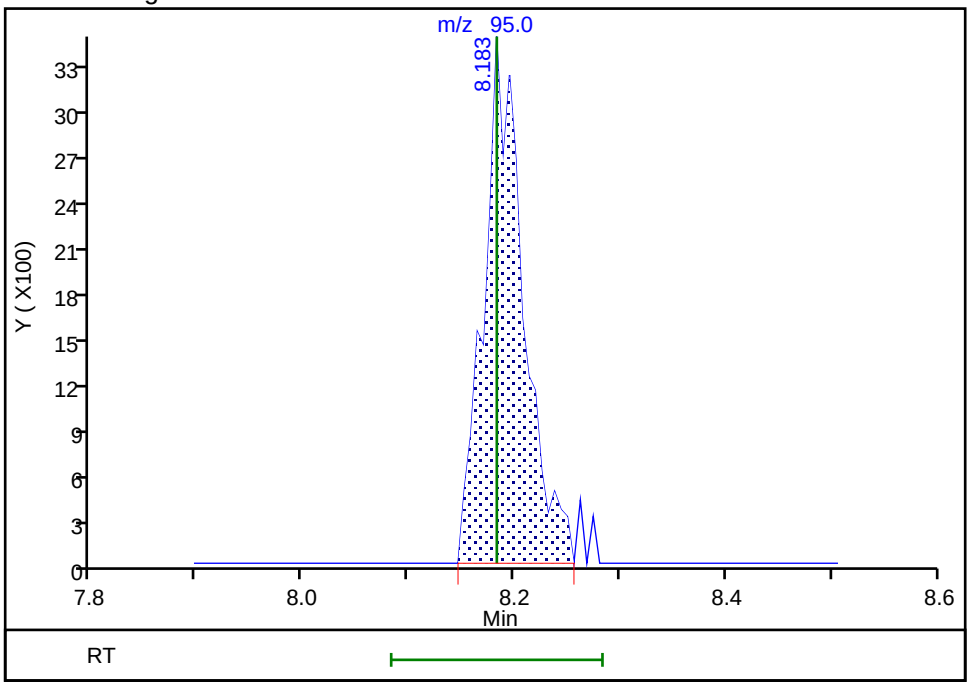
Processing Integration Results

RT: 8.18
Area: 4592
Amount: 0.082889
Amount Units: ug/l



Manual Integration Results

RT: 8.18
Area: 8881
Amount: 0.160309
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 12:59:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-95715-3

Matrix: Water Lab File ID: IG31X11.D

Analysis Method: 8260D Date Collected: 08/25/2022 09:15

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 13:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.1	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND	^c cn	0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	0.11	J ^c cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.33	J	0.50	0.20
108-88-3	Toluene	0.16	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-95715-3

Matrix: Water Lab File ID: IG31X11.D

Analysis Method: 8260D Date Collected: 08/25/2022 09:15

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 13:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.14	J	0.50	0.080
75-01-4	Vinyl chloride	ND	^c cn	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D
Lims ID: 410-95715-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 13:15:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-012
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:00:58 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:32:07

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	4 Chloromethane	50	2.129	2.136	-0.007	58	6359	0.1070	a
	5 Vinyl chloride	62		2.245				ND	
	7 Bromomethane	94		2.593				ND	
	8 Chloroethane	64		2.696				ND	
	15 1,1-Dichloroethene	96		3.556				ND	
	16 Acetone	43	3.605	3.574	0.031	71	15908	2.05	
	20 Carbon disulfide	76	3.842	3.861	-0.019	27	7071	0.0656	M
	25 Methylene Chloride	84		4.221				ND	
*	26 t-Butyl alcohol-d10 (IS)	65	4.239	4.251	-0.012	19	140535	50.0	
	29 Methyl tert-butyl ether	73		4.635				ND	
	30 trans-1,2-Dichloroethene	96		4.647				ND	
	32 1,1-Dichloroethane	63		5.293				ND	
	38 2-Butanone (MEK)	43		6.086				ND	7
	39 cis-1,2-Dichloroethene	96	6.128	6.123	0.005	33	8188	0.1531	a
	46 Chlorobromomethane	128		6.452				ND	
	48 Chloroform	83	6.604	6.604	0.000	91	6277	0.0714	
$	49 Dibromofluoromethane (Surr)	113	6.817	6.811	0.006	94	473700	11.1	
	50 1,1,1-Trichloroethane	97		6.824				ND	7
	54 Carbon tetrachloride	117		7.043				ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	67	94863	10.8	
	57 Benzene	78		7.299				ND	7
	58 1,2-Dichloroethane	62		7.372				ND	
*	61 Fluorobenzene (IS)	96	7.707	7.702	0.005	99	1699760	10.0	
	64 Trichloroethene	95	8.195	8.183	0.012	97	7465	0.1363	
	66 1,2-Dichloropropane	63		8.506				ND	
	71 Dichlorobromomethane	83		8.854				ND	
	76 cis-1,3-Dichloropropene	75		9.396				ND	
	77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	
$	78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	1759785	9.41	
	79 Toluene	92	9.786	9.780	0.006	99	23706	0.1604	
	97 trans-1,3-Dichloropropene	75		10.036				ND	
	100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.341	10.329	0.012	95	23241	0.3294	
103 2-Hexanone	43		10.445				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1441188	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106				0		0.1599	
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91	11.280	11.268	0.012	96	8486	0.0308	
113 m-Xylene & p-Xylene	106	11.396	11.384	0.012	98	11863	0.1108	
114 o-Xylene	106	11.731	11.713	0.018	94	5011	0.0491	
115 Styrene	104		11.725				ND	
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	93	629103	9.17	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	766627	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

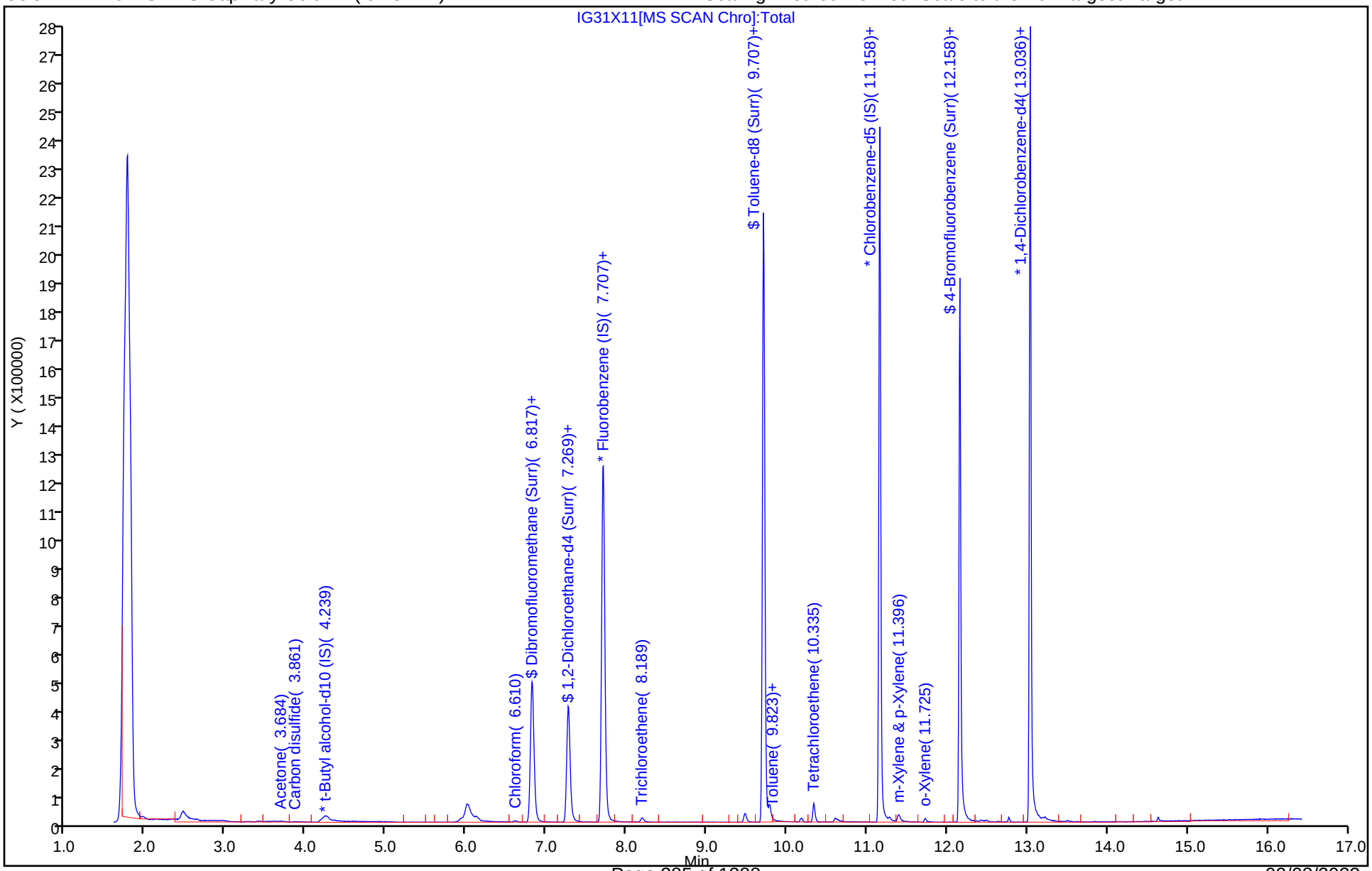
Report Date: 01-Sep-2022 13:00:58 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D

Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3	Worklist Smp#:	12
Client ID:	HD-COD-SW-8-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Lims ID:	410-95715-A-3				
Client ID:	HD-COD-SW-8-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 13:15:30	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-012				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 13:00:58	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

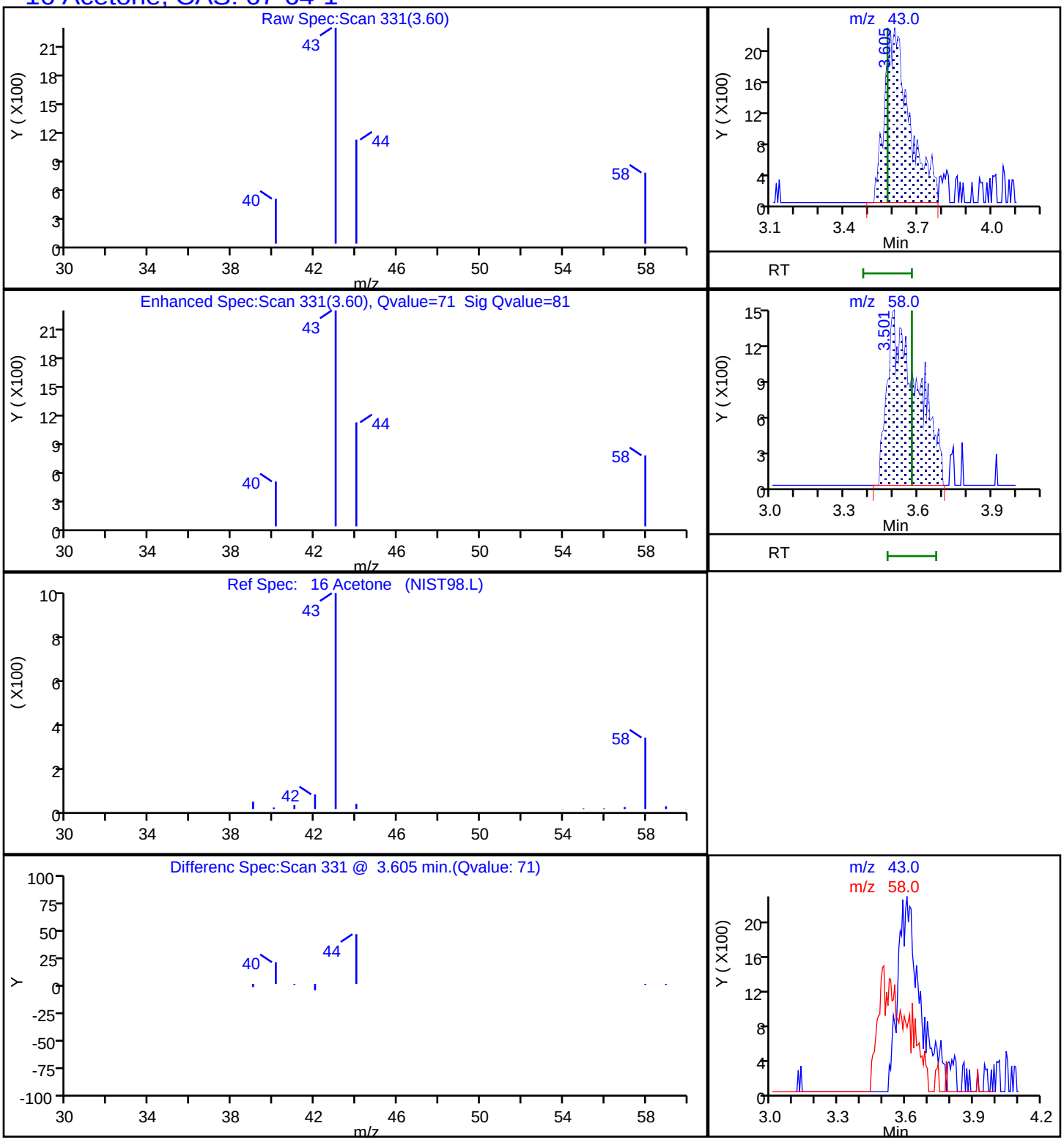
First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:32:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.1	111.01
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.23
$ 78 Toluene-d8 (Surr)	10.0	9.41	94.09
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.17	91.74

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930		
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

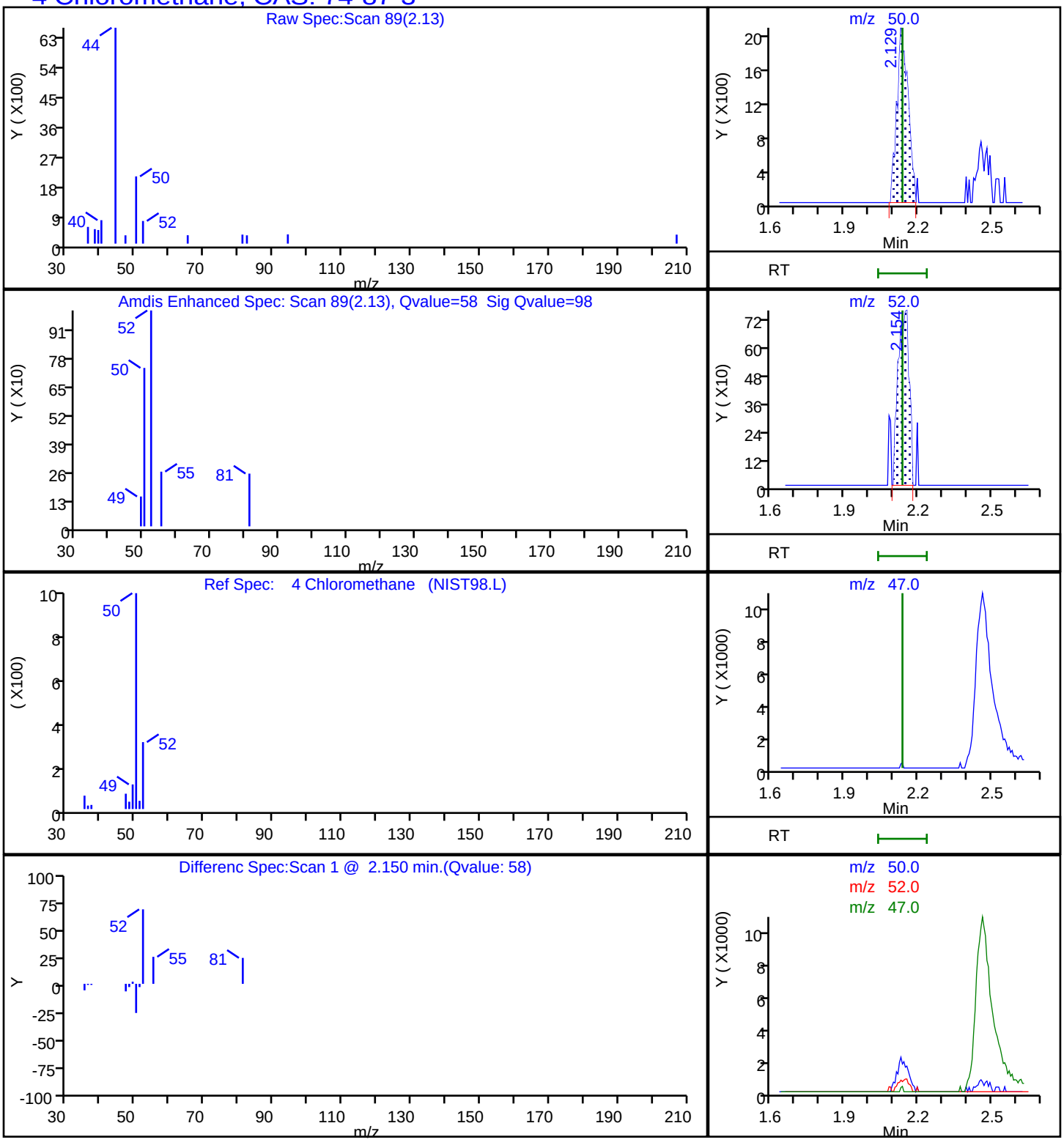
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930		
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

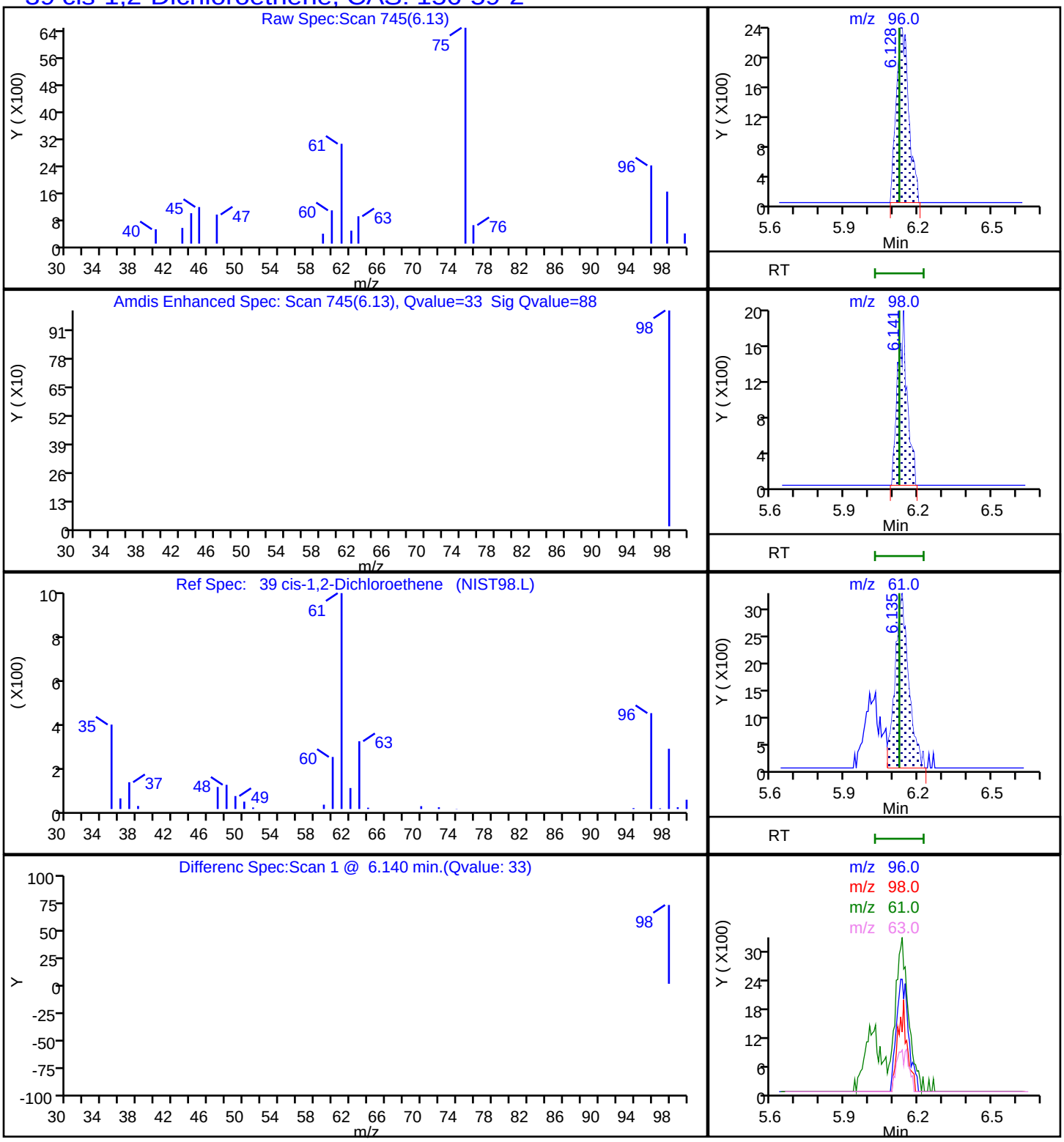
4 Chloromethane, CAS: 74-87-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930		
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

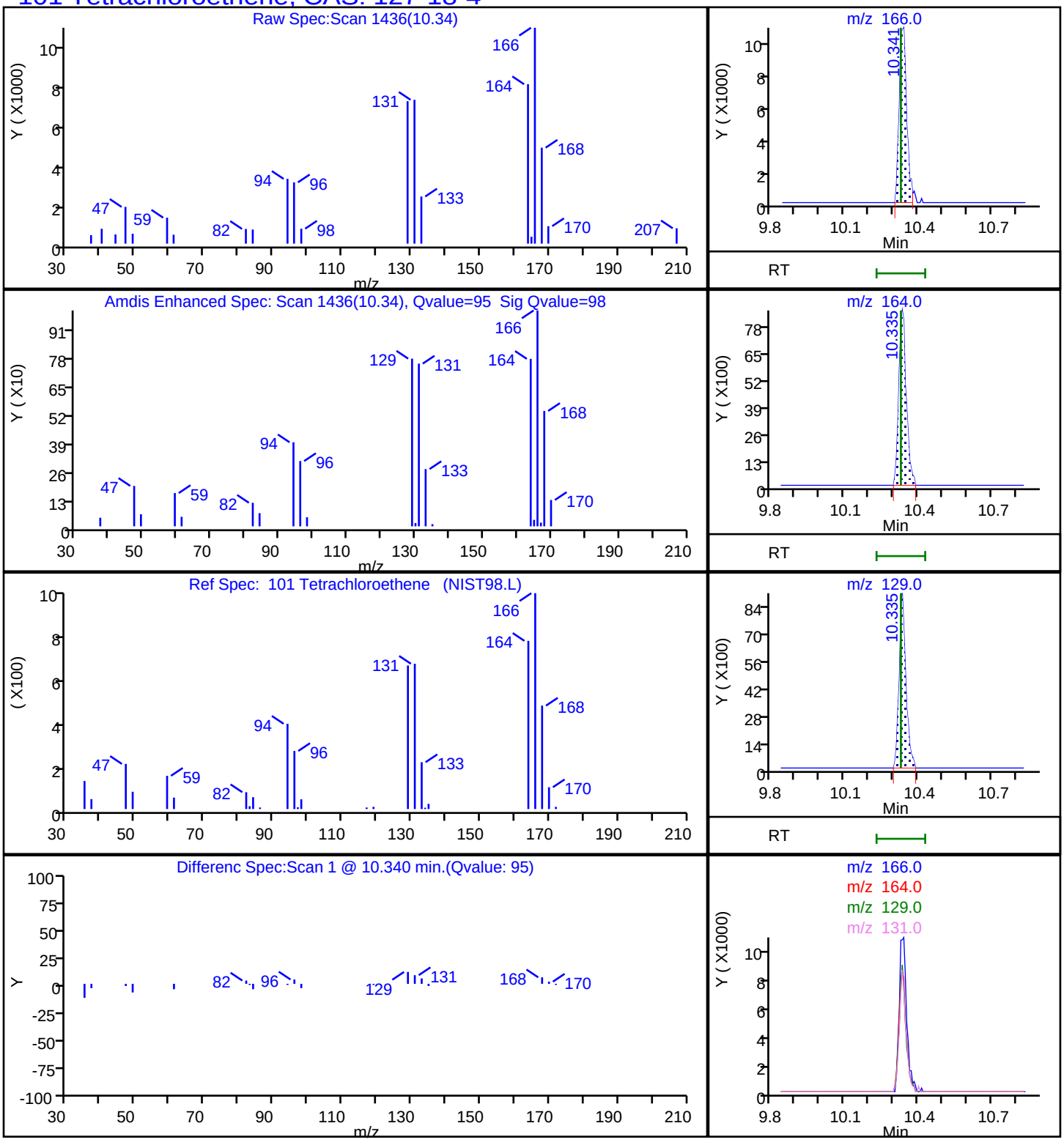
39 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930		
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

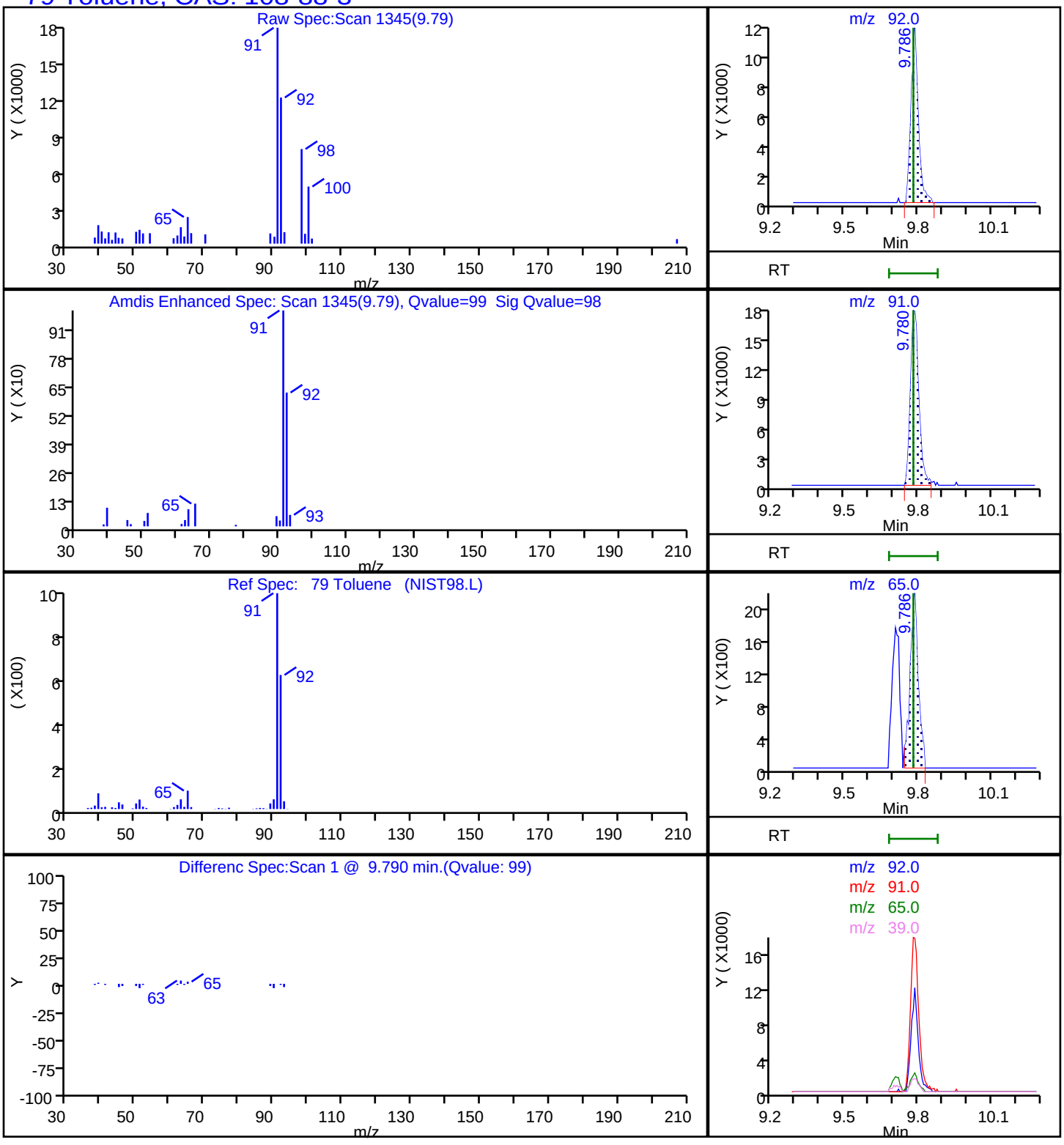
101 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930		
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

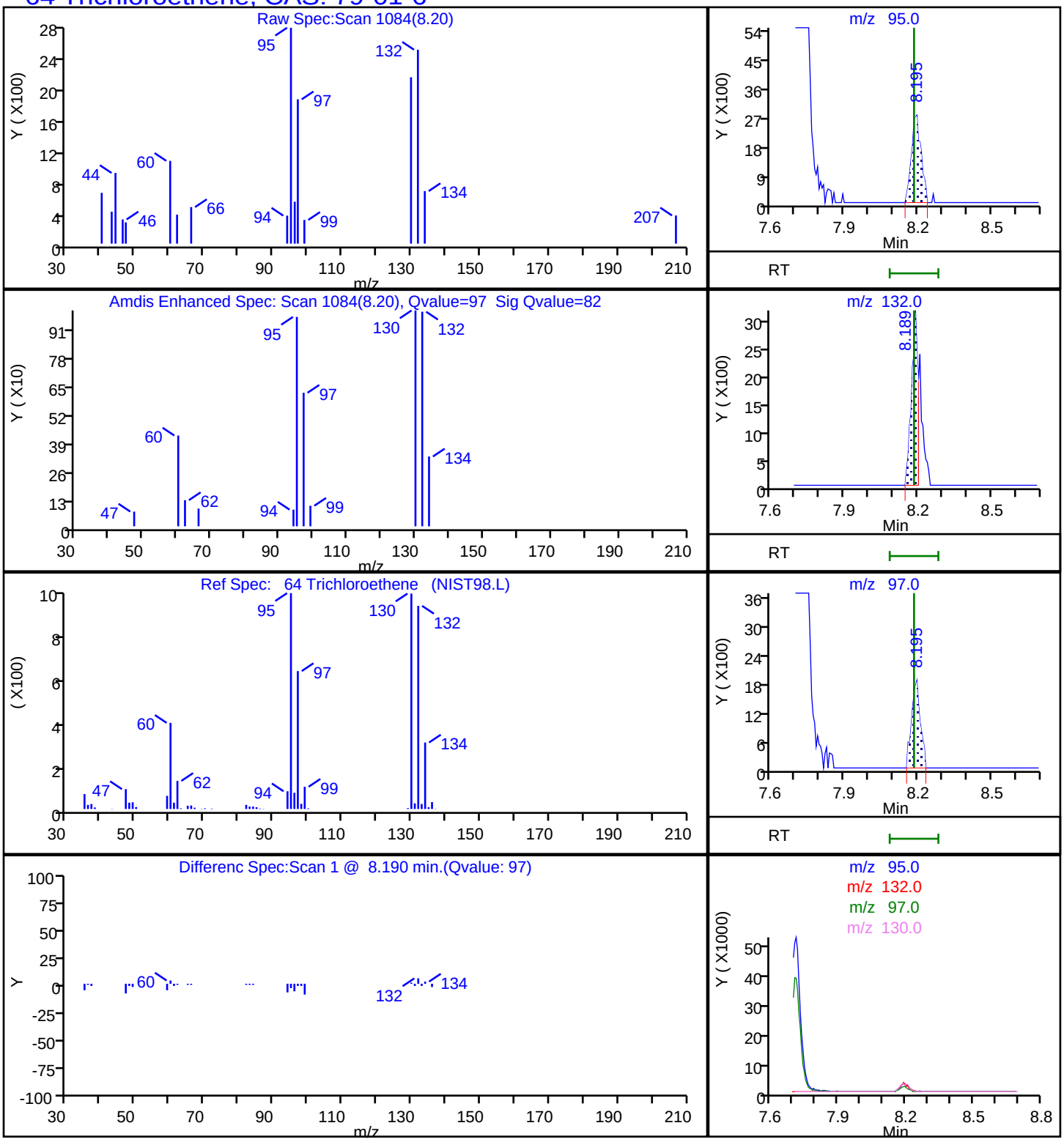
79 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930		
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

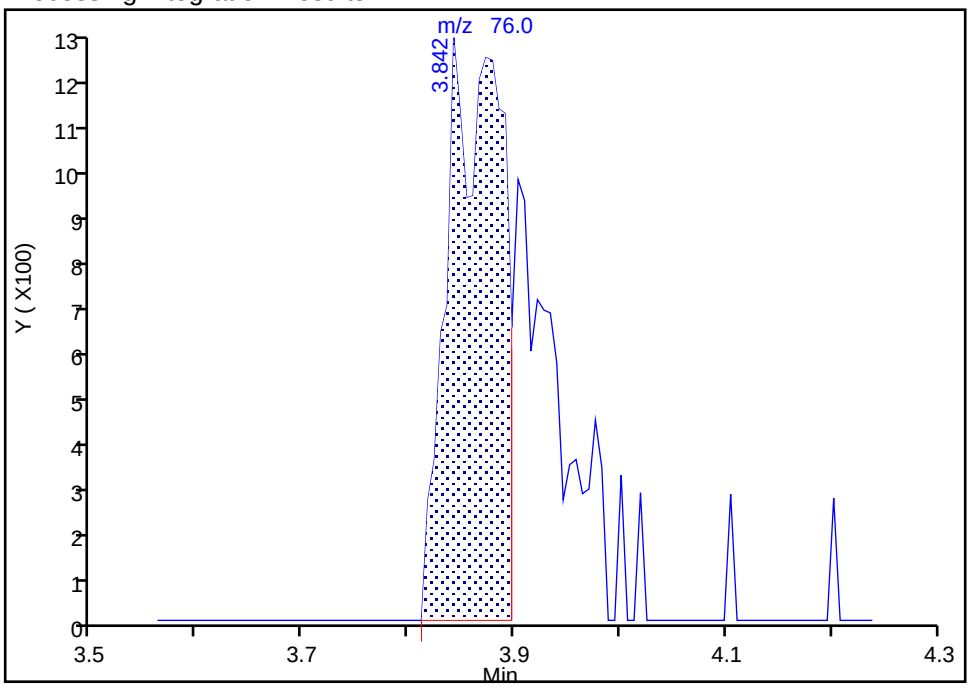
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930		
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Carbon disulfide, CAS: 75-15-0

Signal: 1

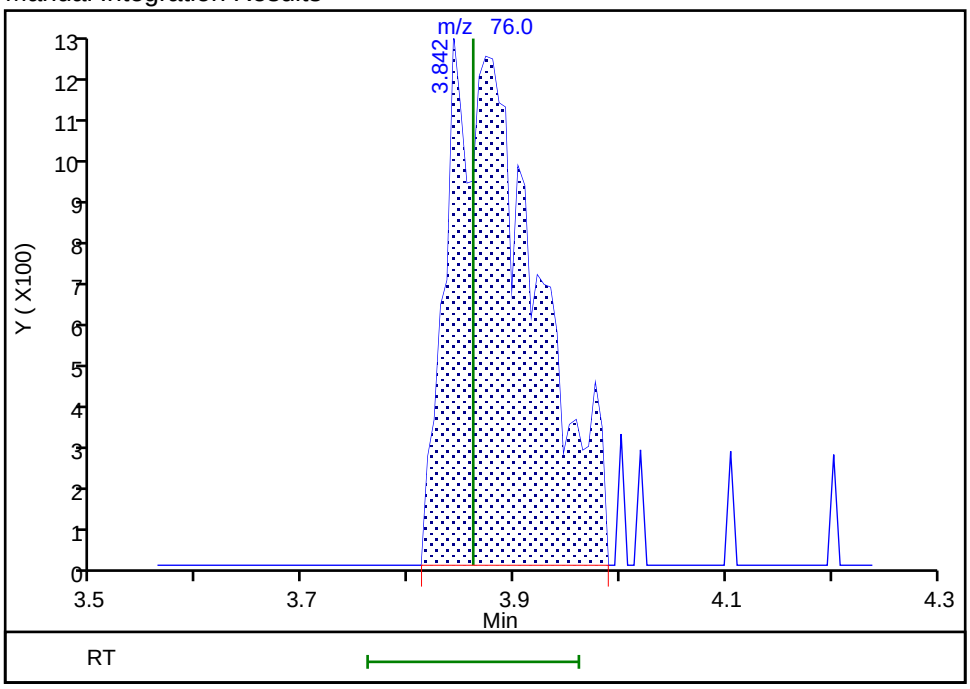
Processing Integration Results

RT: 3.84
Area: 4469
Amount: 0.041458
Amount Units: ug/l



Manual Integration Results

RT: 3.84
Area: 7071
Amount: 0.065596
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:00:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

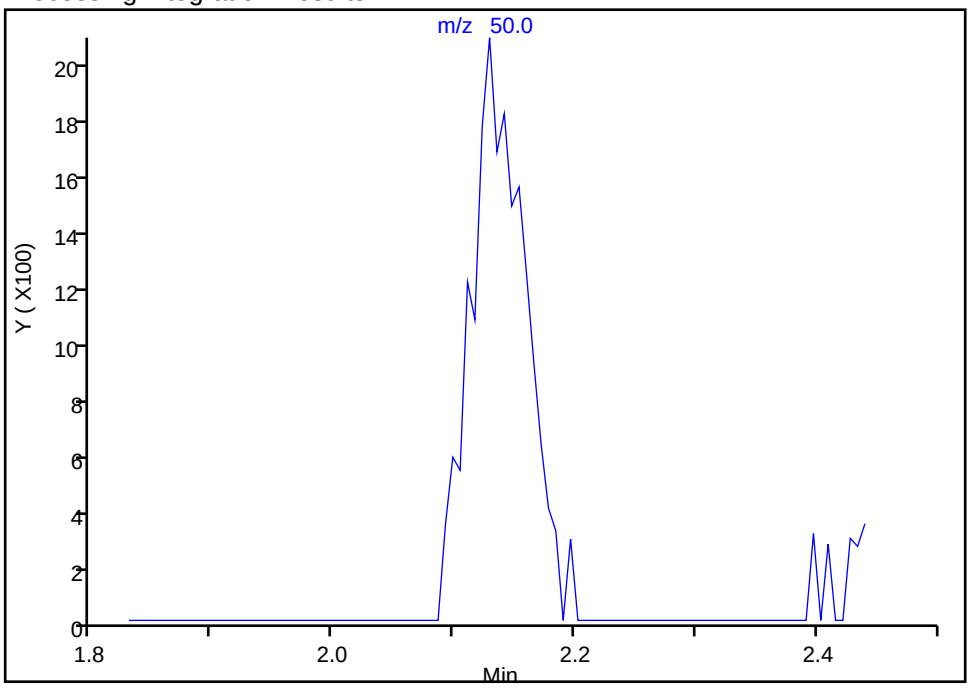
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930		
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Chloromethane, CAS: 74-87-3

Signal: 1

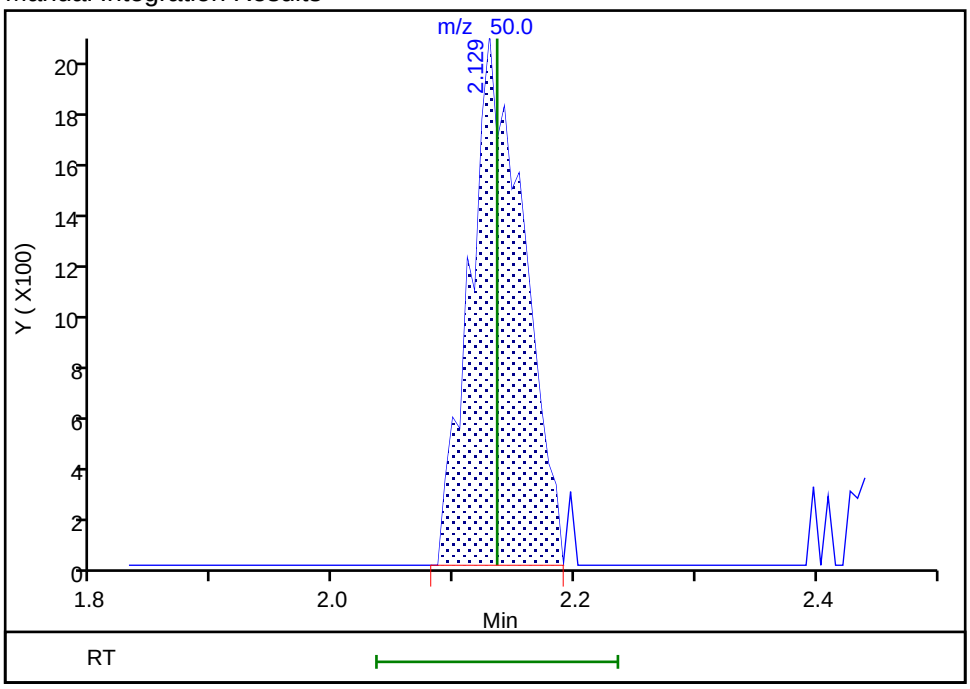
Not Detected
Expected RT: 2.14

Processing Integration Results



Manual Integration Results

RT: 2.13
Area: 6359
Amount: 0.106952
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:30:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

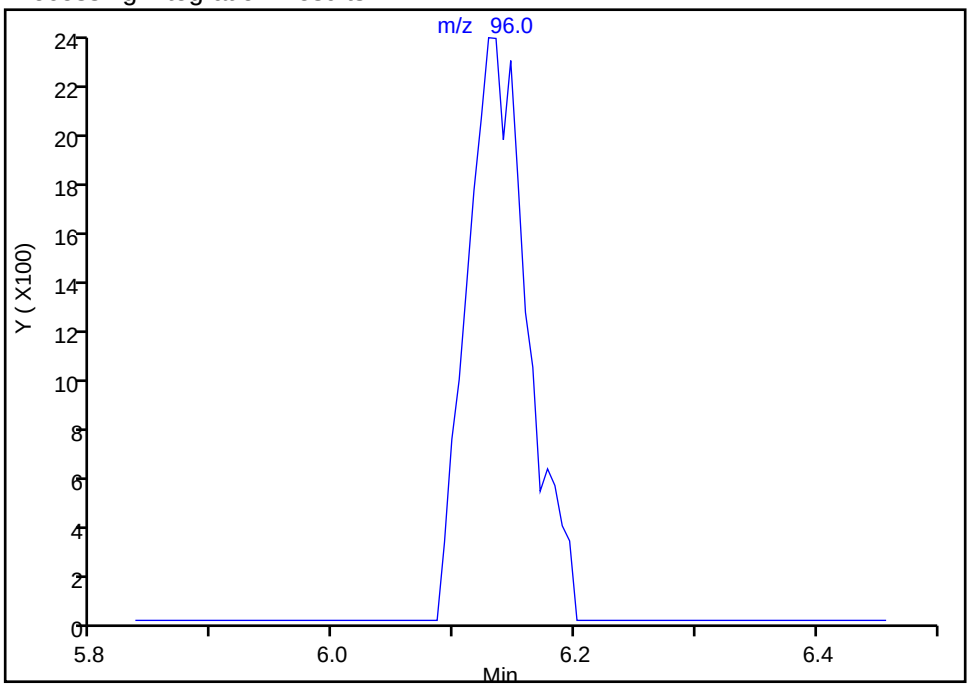
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X11.D				
Injection Date:	31-Aug-2022 13:15:30	Instrument ID:	19930		
Lims ID:	410-95715-A-3	Lab Sample ID:	410-95715-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

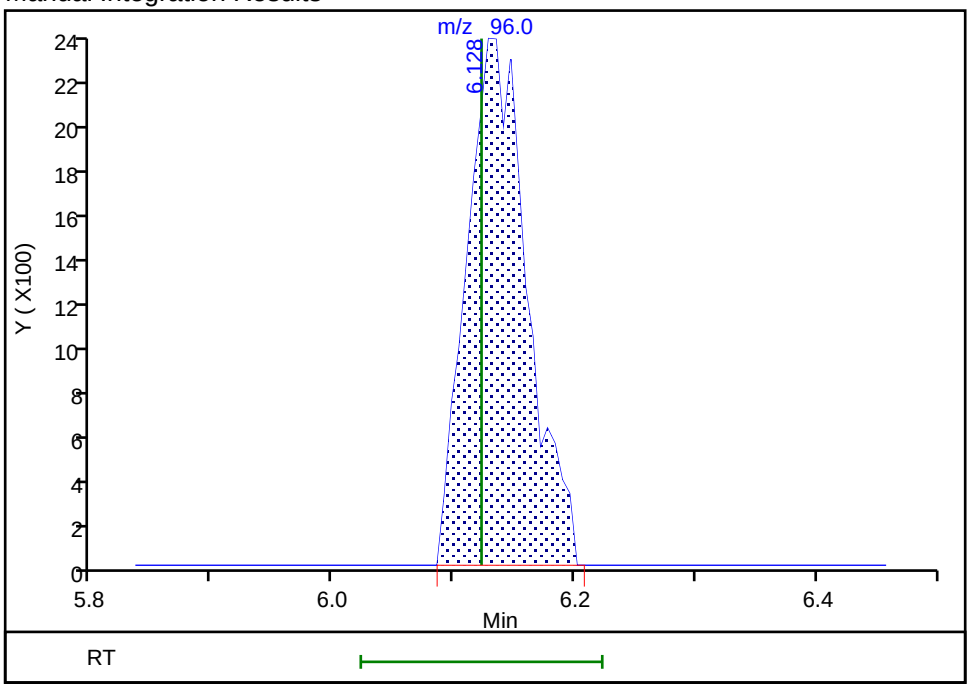
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.13
Area: 8188
Amount: 0.153060
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:31:26
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-95715-4

Matrix: Water Lab File ID: IG31X12.D

Analysis Method: 8260D Date Collected: 08/25/2022 13:05

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 13:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.3	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND	^c cn	0.50	0.10
67-66-3	Chloroform	0.098	J	0.50	0.090
74-87-3	Chloromethane	ND	^c cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.084	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-95715-4

Matrix: Water Lab File ID: IG31X12.D

Analysis Method: 8260D Date Collected: 08/25/2022 13:05

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 13:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.10	J	0.50	0.080
75-01-4	Vinyl chloride	ND	^c cn	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D
Lims ID: 410-95715-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 13:36:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-013
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:01:36 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:35:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.142	2.136	0.006	1	2816	0.0494	a
5 Vinyl chloride	62		2.245				ND	
7 Bromomethane	94		2.593				ND	
8 Chloroethane	64		2.696				ND	
15 1,1-Dichloroethene	96		3.556				ND	
16 Acetone	43	3.605	3.574	0.031	98	25299	3.32	
20 Carbon disulfide	76	3.873	3.861	0.012	94	6111	0.0591	M
25 Methylene Chloride	84		4.221				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.245	4.251	-0.006	20	138065	50.0	
29 Methyl tert-butyl ether	73		4.635				ND	
30 trans-1,2-Dichloroethene	96		4.647				ND	
32 1,1-Dichloroethane	63		5.293				ND	
38 2-Butanone (MEK)	43		6.086				ND	7
39 cis-1,2-Dichloroethene	96	6.141	6.123	0.018	78	4336	0.0845	
46 Chlorobromomethane	128		6.452				ND	
48 Chloroform	83	6.616	6.604	0.012	92	8293	0.0983	
$ 49 Dibromofluoromethane (Surr)	113	6.824	6.811	0.013	94	451893	11.0	
50 1,1,1-Trichloroethane	97		6.824				ND	
54 Carbon tetrachloride	117		7.043				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	56	90278	10.7	
57 Benzene	78	7.293	7.299	-0.006	41	2724	0.0138	M
58 1,2-Dichloroethane	62		7.372				ND	
* 61 Fluorobenzene (IS)	96	7.708	7.702	0.006	99	1631155	10.0	
64 Trichloroethene	95	8.195	8.183	0.012	97	5518	0.1050	
66 1,2-Dichloropropane	63		8.506				ND	
71 Dichlorobromomethane	83		8.854				ND	
76 cis-1,3-Dichloropropene	75		9.396				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	1708072	9.81	
79 Toluene	92	9.786	9.780	0.006	96	10586	0.0769	
97 trans-1,3-Dichloropropene	75		10.036				ND	
100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.341	10.329	0.012	96	12174	0.1853	
103 2-Hexanone	43		10.445				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1341786	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	7
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	91	594461	9.31	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	715718	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

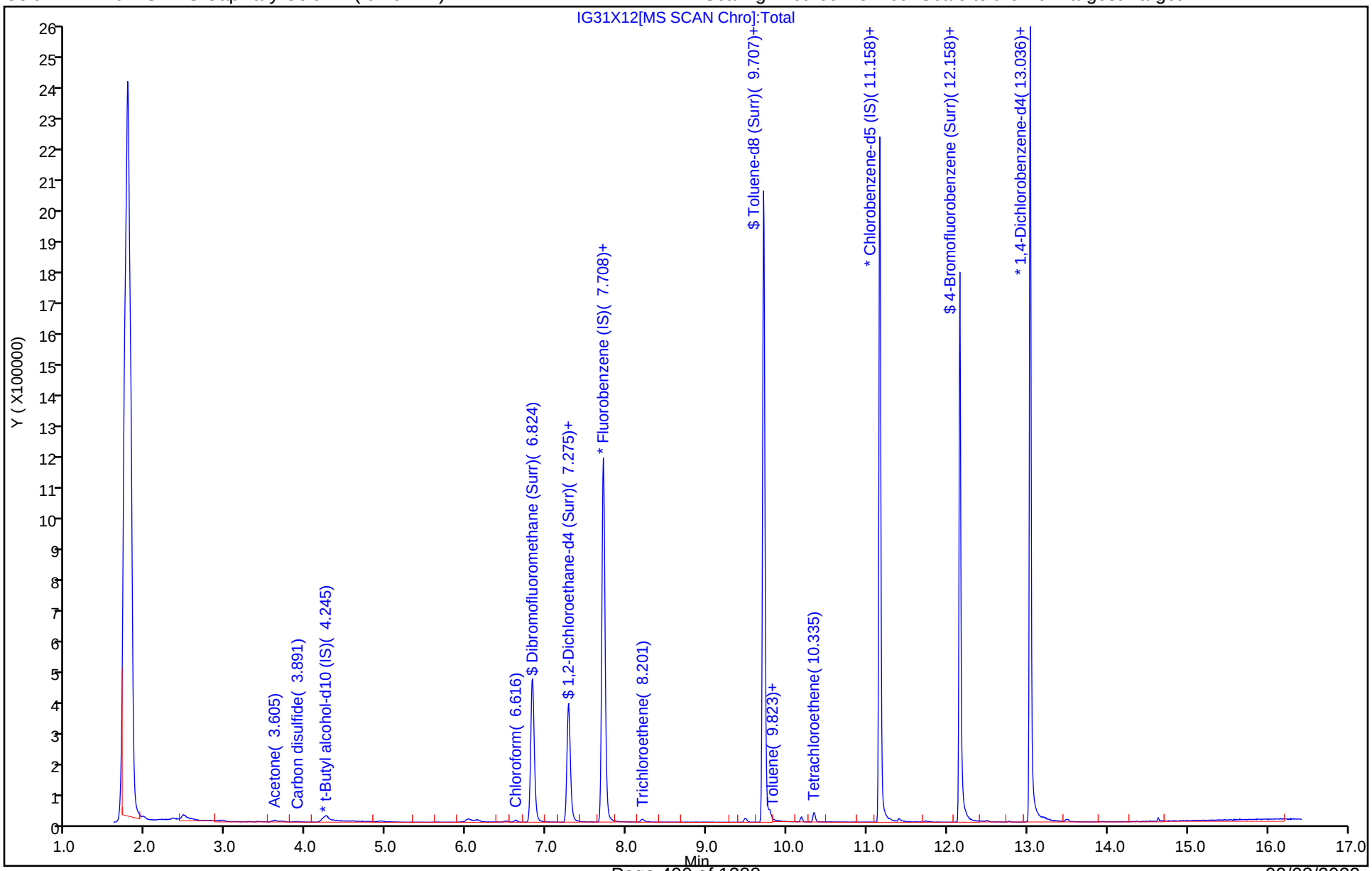
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Sep-2022 13:01:37 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D				
Injection Date:	31-Aug-2022 13:36:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-4	Lab Sample ID:	410-95715-4	Worklist Smp#:	13
Client ID:	HD-COD-SW-9-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D				
Lims ID:	410-95715-A-4				
Client ID:	HD-COD-SW-9-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 13:36:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-013				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 13:01:36	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

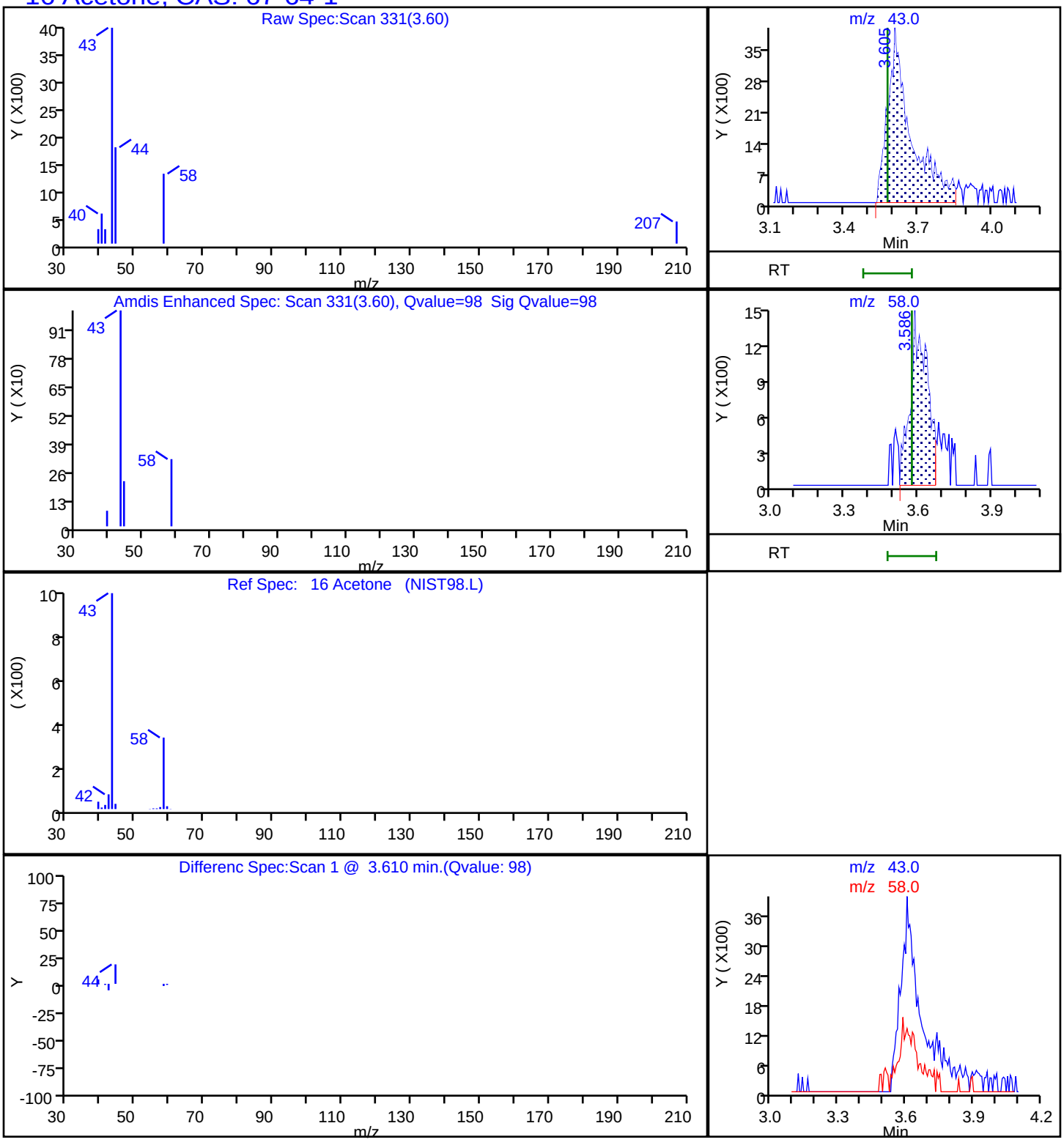
First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:35:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.0	110.35
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.33
$ 78 Toluene-d8 (Surr)	10.0	9.81	98.09
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.31	93.11

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D				
Injection Date:	31-Aug-2022 13:36:30	Instrument ID:	19930		
Lims ID:	410-95715-A-4	Lab Sample ID:	410-95715-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

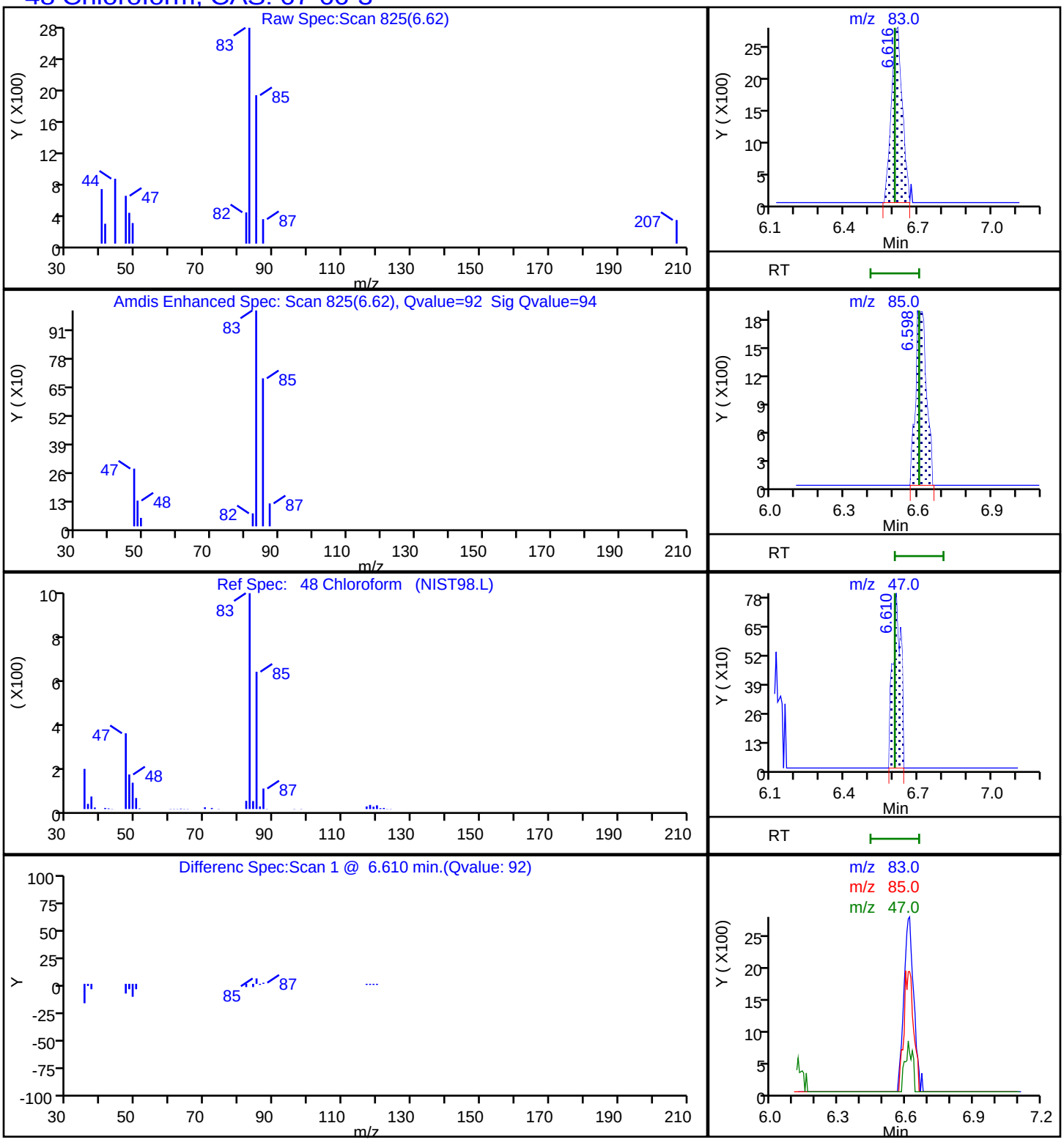
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D				
Injection Date:	31-Aug-2022 13:36:30	Instrument ID:	19930		
Lims ID:	410-95715-A-4	Lab Sample ID:	410-95715-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

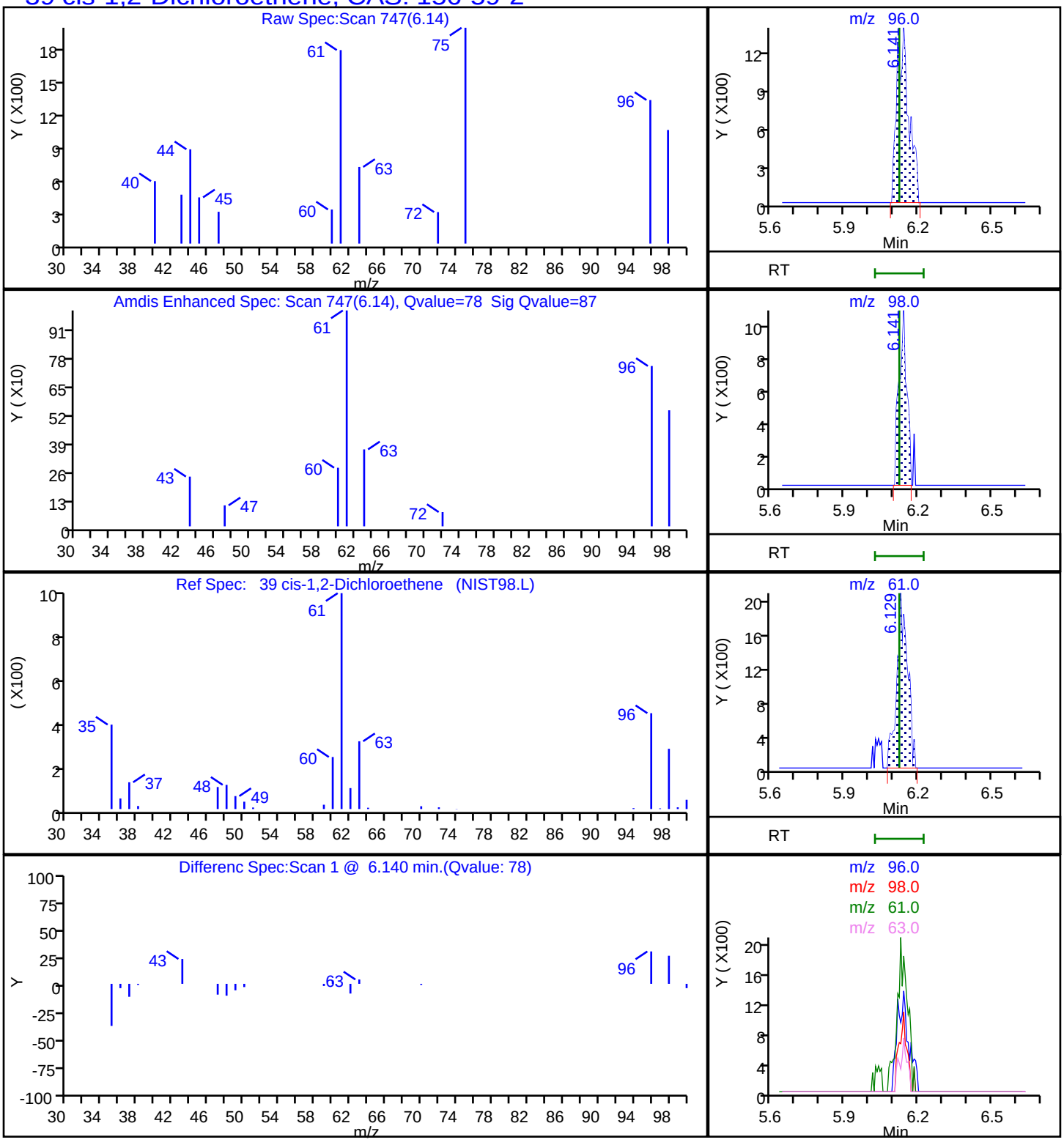
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D				
Injection Date:	31-Aug-2022 13:36:30	Instrument ID:	19930		
Lims ID:	410-95715-A-4	Lab Sample ID:	410-95715-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

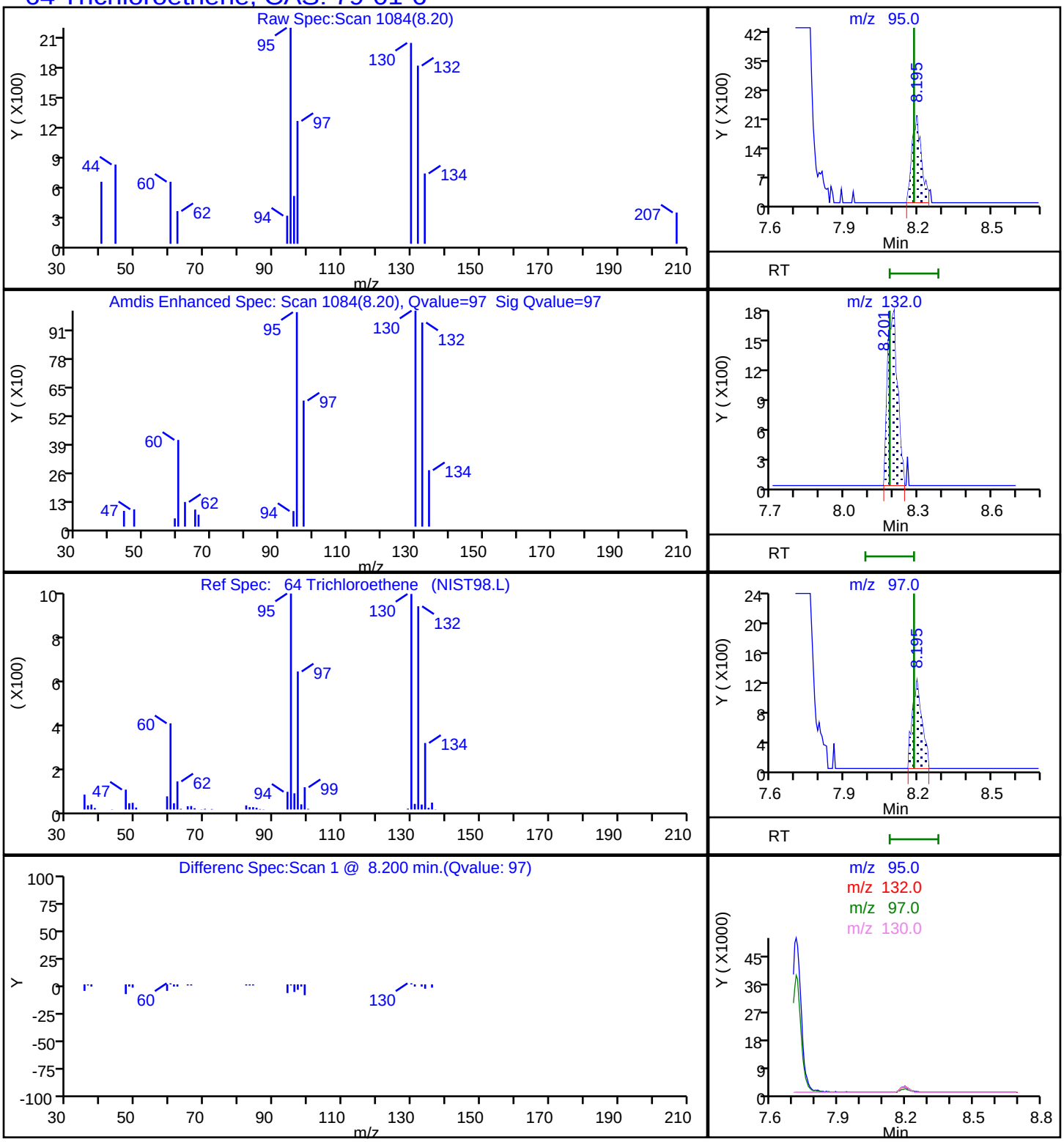
39 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D				
Injection Date:	31-Aug-2022 13:36:30	Instrument ID:	19930		
Lims ID:	410-95715-A-4	Lab Sample ID:	410-95715-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

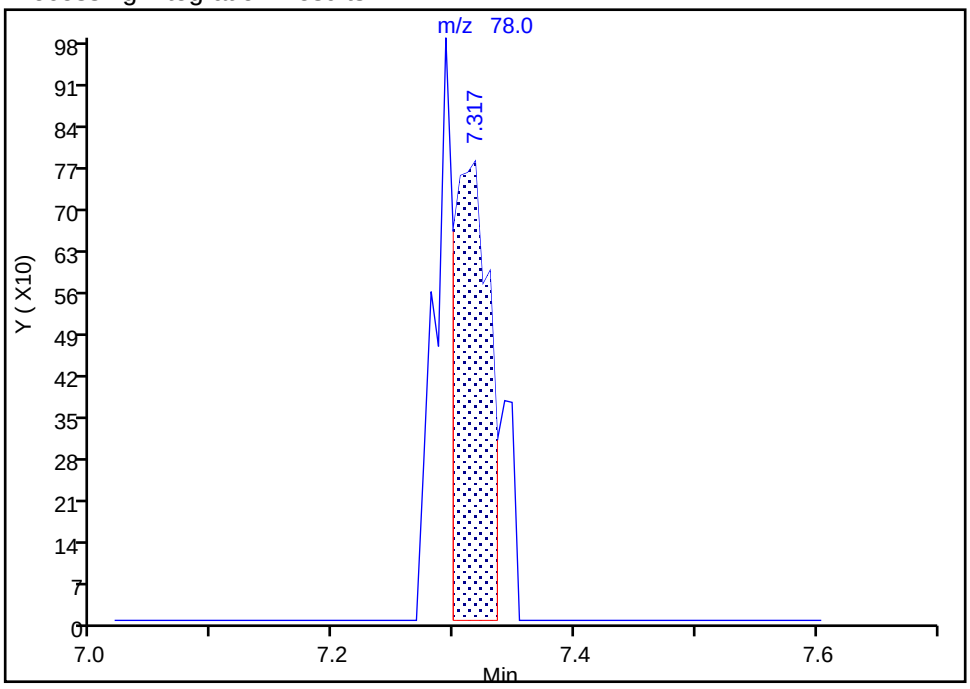
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D				
Injection Date:	31-Aug-2022 13:36:30	Instrument ID:	19930		
Lims ID:	410-95715-A-4	Lab Sample ID:	410-95715-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

57 Benzene, CAS: 71-43-2

Signal: 1

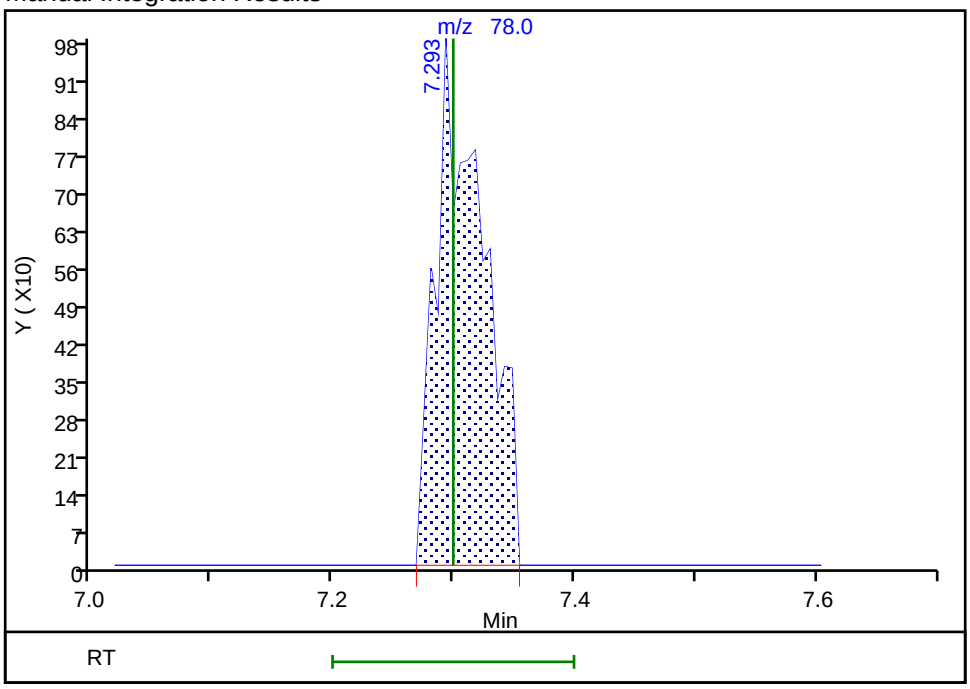
Processing Integration Results

RT: 7.32
Area: 1618
Amount: 0.008191
Amount Units: ug/l



Manual Integration Results

RT: 7.29
Area: 2724
Amount: 0.013791
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:33:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

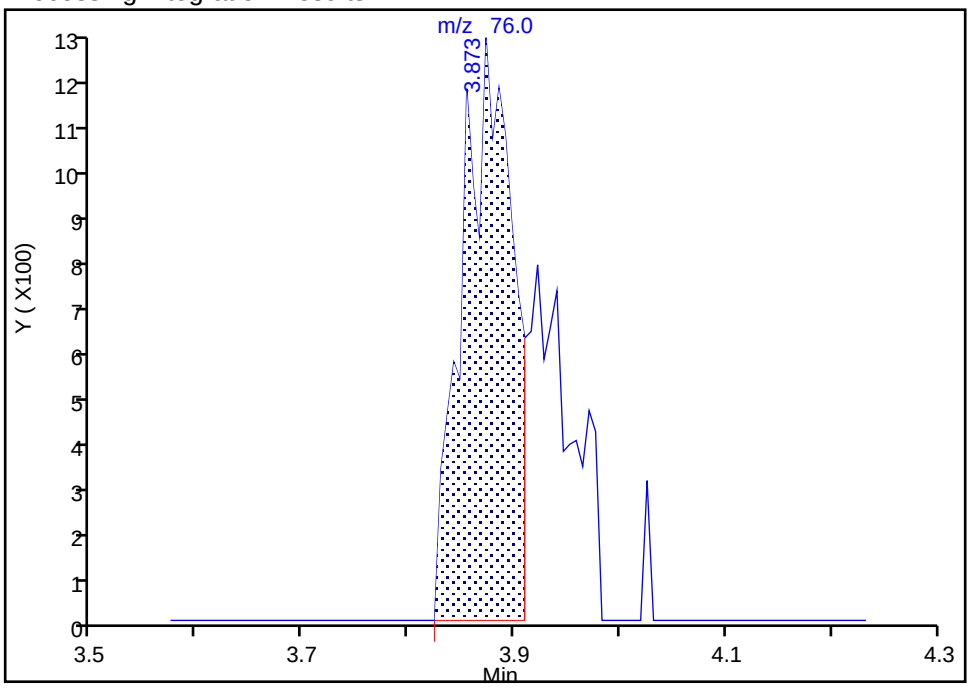
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D				
Injection Date:	31-Aug-2022 13:36:30	Instrument ID:	19930		
Lims ID:	410-95715-A-4	Lab Sample ID:	410-95715-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Carbon disulfide, CAS: 75-15-0

Signal: 1

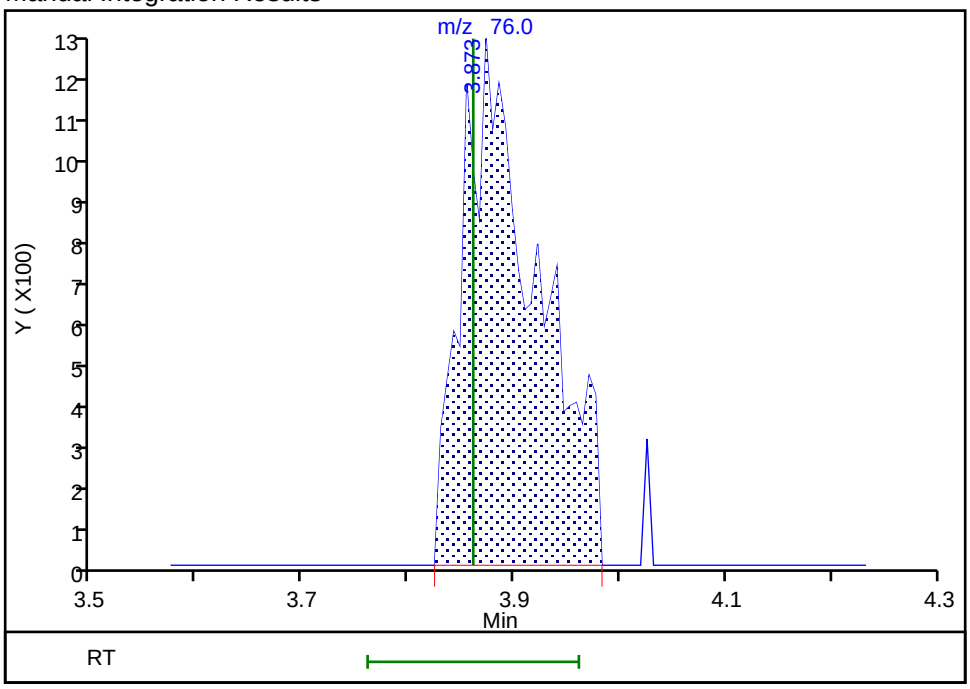
Processing Integration Results

RT: 3.87
Area: 4092
Amount: 0.039557
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 6111
Amount: 0.059075
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:01:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

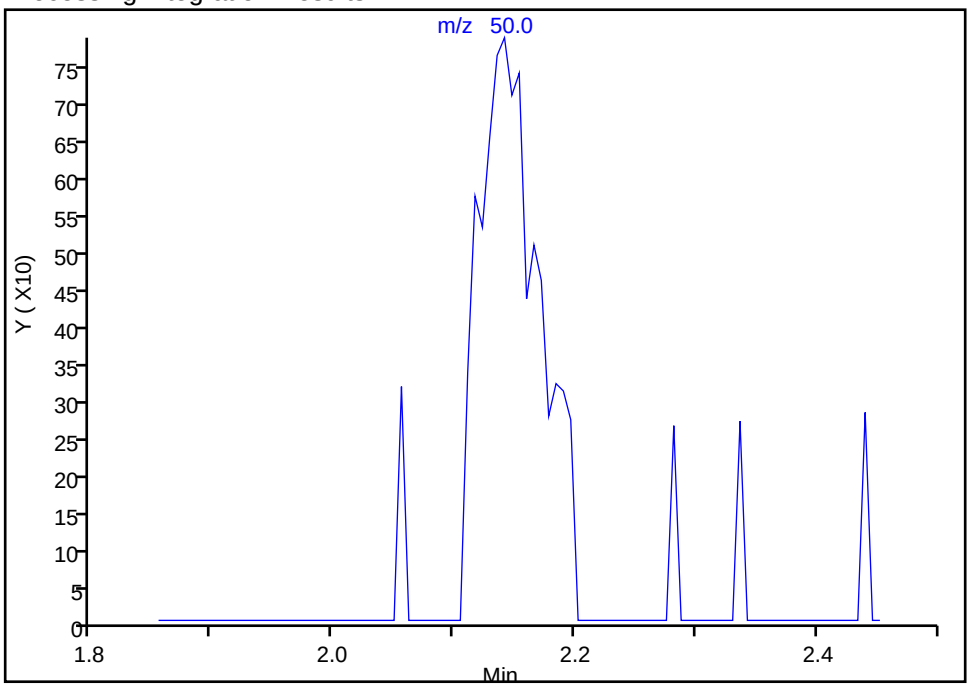
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X12.D				
Injection Date:	31-Aug-2022 13:36:30	Instrument ID:	19930		
Lims ID:	410-95715-A-4	Lab Sample ID:	410-95715-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Chloromethane, CAS: 74-87-3

Signal: 1

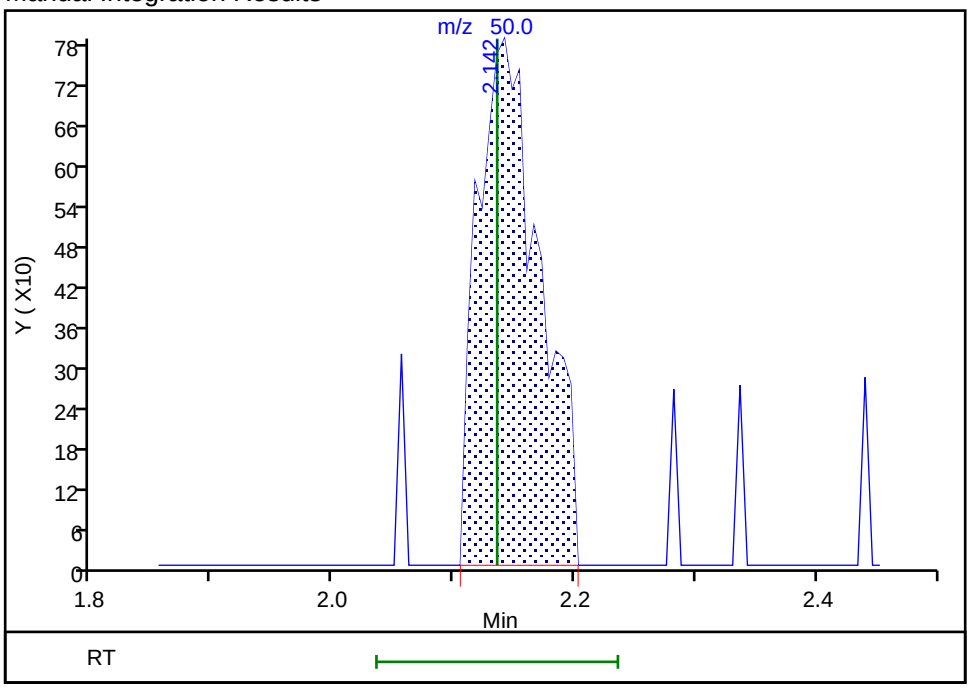
Not Detected
Expected RT: 2.14

Processing Integration Results



Manual Integration Results

RT: 2.14
Area: 2816
Amount: 0.049354
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:32:25
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-95715-5

Matrix: Water Lab File ID: IG31X13.D

Analysis Method: 8260D Date Collected: 08/25/2022 09:35

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.4	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND	^c cn	0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND	^c cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.23	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.56		0.50	0.20
108-88-3	Toluene	0.12	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-95715-5

Matrix: Water Lab File ID: IG31X13.D

Analysis Method: 8260D Date Collected: 08/25/2022 09:35

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.17	J	0.50	0.080
75-01-4	Vinyl chloride	ND	^c cn	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D
Lims ID: 410-95715-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 13:57:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-014
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:02:51 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:36:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.148	2.136	0.012	1	3398	0.0605	
5 Vinyl chloride	62		2.245				ND	7
7 Bromomethane	94		2.593				ND	
8 Chloroethane	64		2.696				ND	
15 1,1-Dichloroethene	96		3.556				ND	
16 Acetone	43	3.629	3.574	0.055	97	18738	2.39	M
20 Carbon disulfide	76	3.873	3.861	0.012	31	6011	0.0590	M
25 Methylene Chloride	84		4.221				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.263	4.251	0.012	20	142370	50.0	
29 Methyl tert-butyl ether	73		4.635				ND	
30 trans-1,2-Dichloroethene	96		4.647				ND	
32 1,1-Dichloroethane	63		5.293				ND	
38 2-Butanone (MEK)	43		6.086				ND	7
39 cis-1,2-Dichloroethene	96	6.135	6.123	0.012	79	11761	0.2327	
46 Chlorobromomethane	128		6.452				ND	
48 Chloroform	83	6.610	6.604	0.006	91	4820	0.0581	
$ 49 Dibromofluoromethane (Surr)	113	6.824	6.811	0.013	94	449197	11.1	
50 1,1,1-Trichloroethane	97		6.824				ND	
54 Carbon tetrachloride	117		7.043				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	56	86524	10.4	
57 Benzene	78	7.311	7.299	0.012	41	4332	0.0223	7M
58 1,2-Dichloroethane	62		7.372				ND	
* 61 Fluorobenzene (IS)	96	7.708	7.702	0.006	99	1606048	10.0	
64 Trichloroethene	95	8.195	8.183	0.012	96	8865	0.1713	M
66 1,2-Dichloropropane	63		8.506				ND	
71 Dichlorobromomethane	83		8.854				ND	
76 cis-1,3-Dichloropropene	75		9.396				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	1661845	9.70	
79 Toluene	92	9.787	9.780	0.007	99	16705	0.1234	
97 trans-1,3-Dichloropropene	75		10.036				ND	
100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.335	10.329	0.006	97	36231	0.5607	
103 2-Hexanone	43		10.445				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1319799	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106				0		0.0692	
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106	11.396	11.384	0.012	98	6785	0.0692	
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	91	589620	9.39	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	704711	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

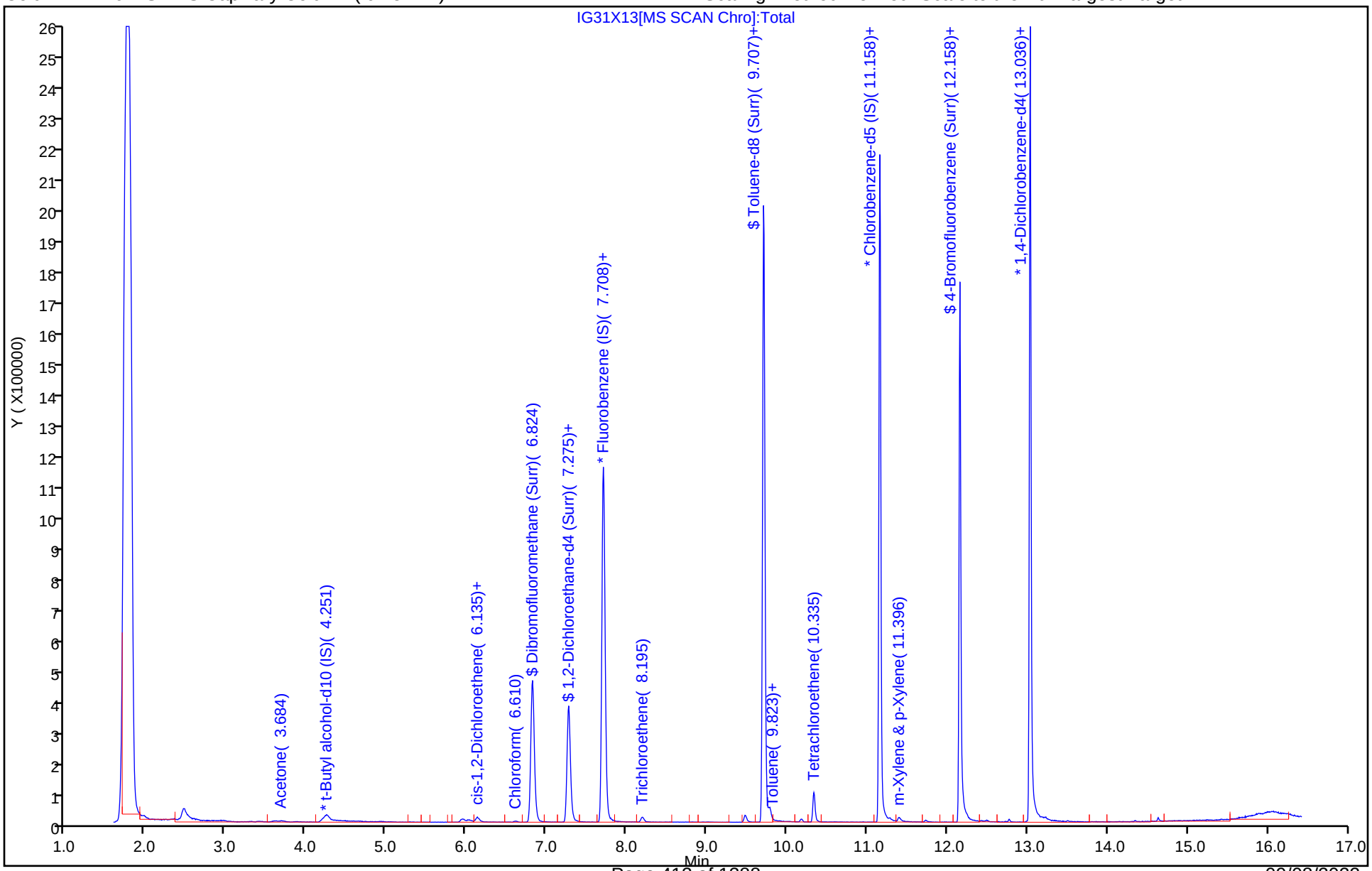
Report Date: 01-Sep-2022 13:02:52 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D

Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5	Worklist Smp#:	14
Client ID:	HD-COD-SW-13-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Lims ID:	410-95715-A-5				
Client ID:	HD-COD-SW-13-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 13:57:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-014				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 13:02:51	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

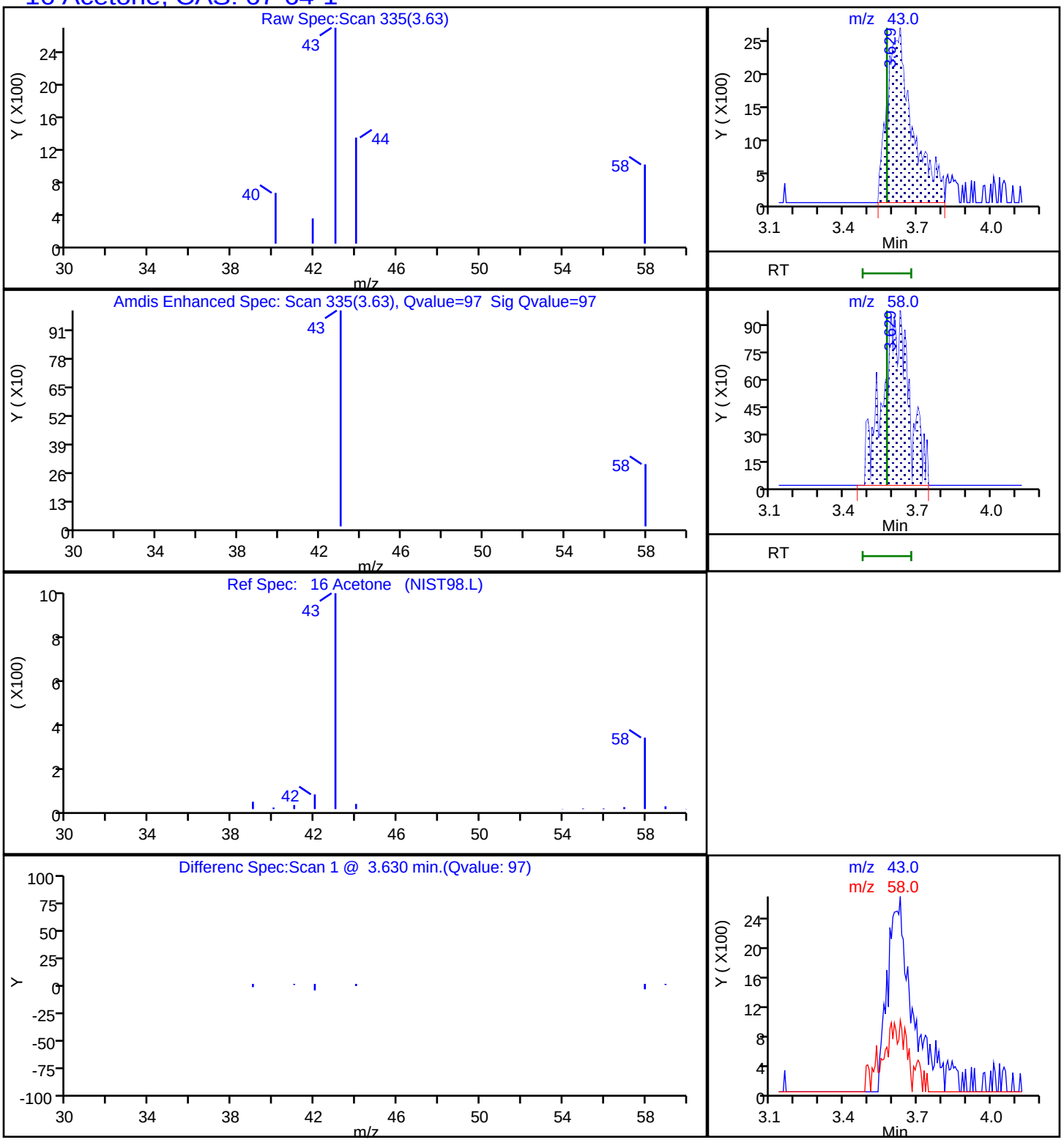
First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:36:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.1	111.41
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.48
$ 78 Toluene-d8 (Surr)	10.0	9.70	97.03
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.39	93.89

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930		
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

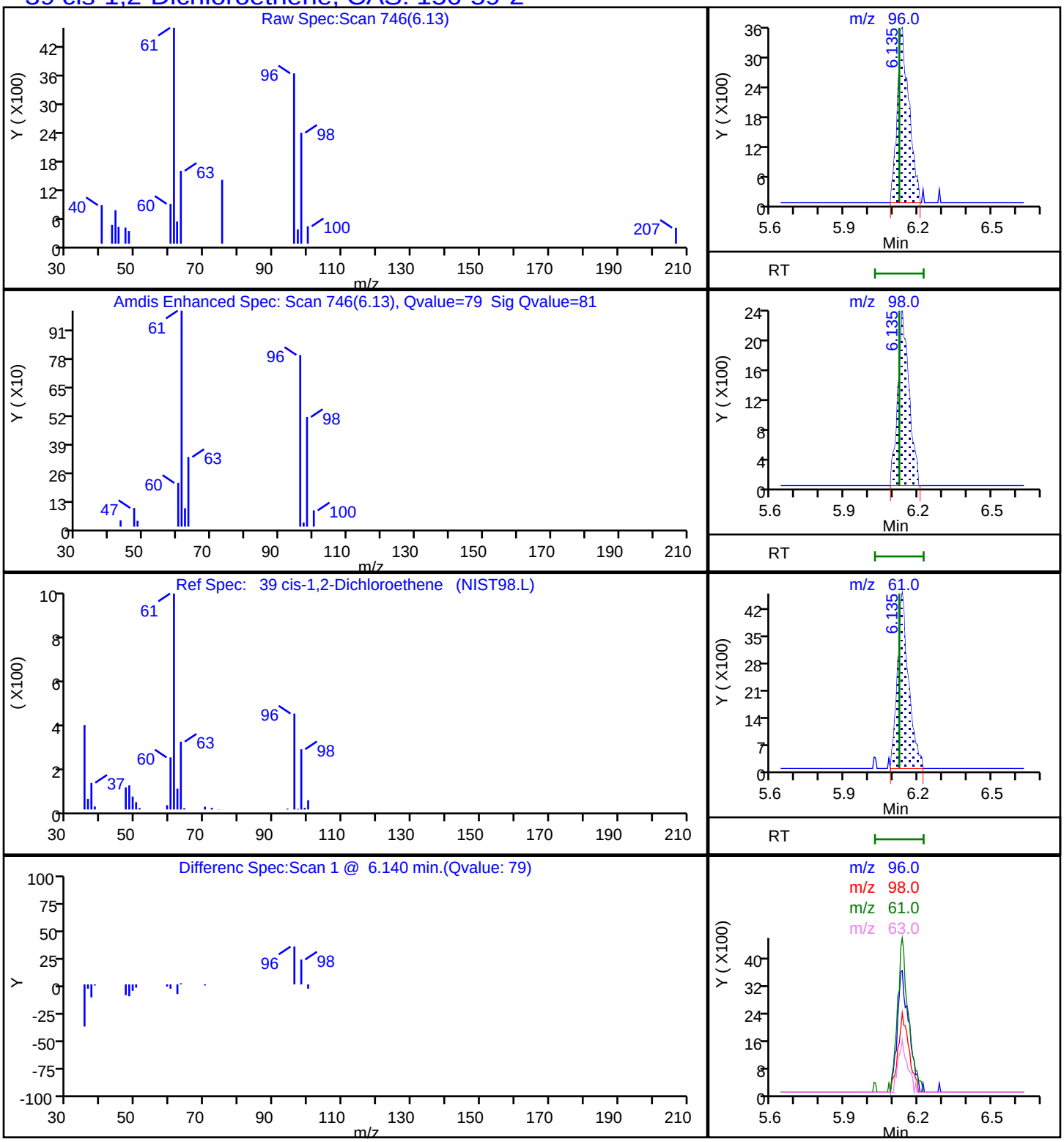
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930		
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

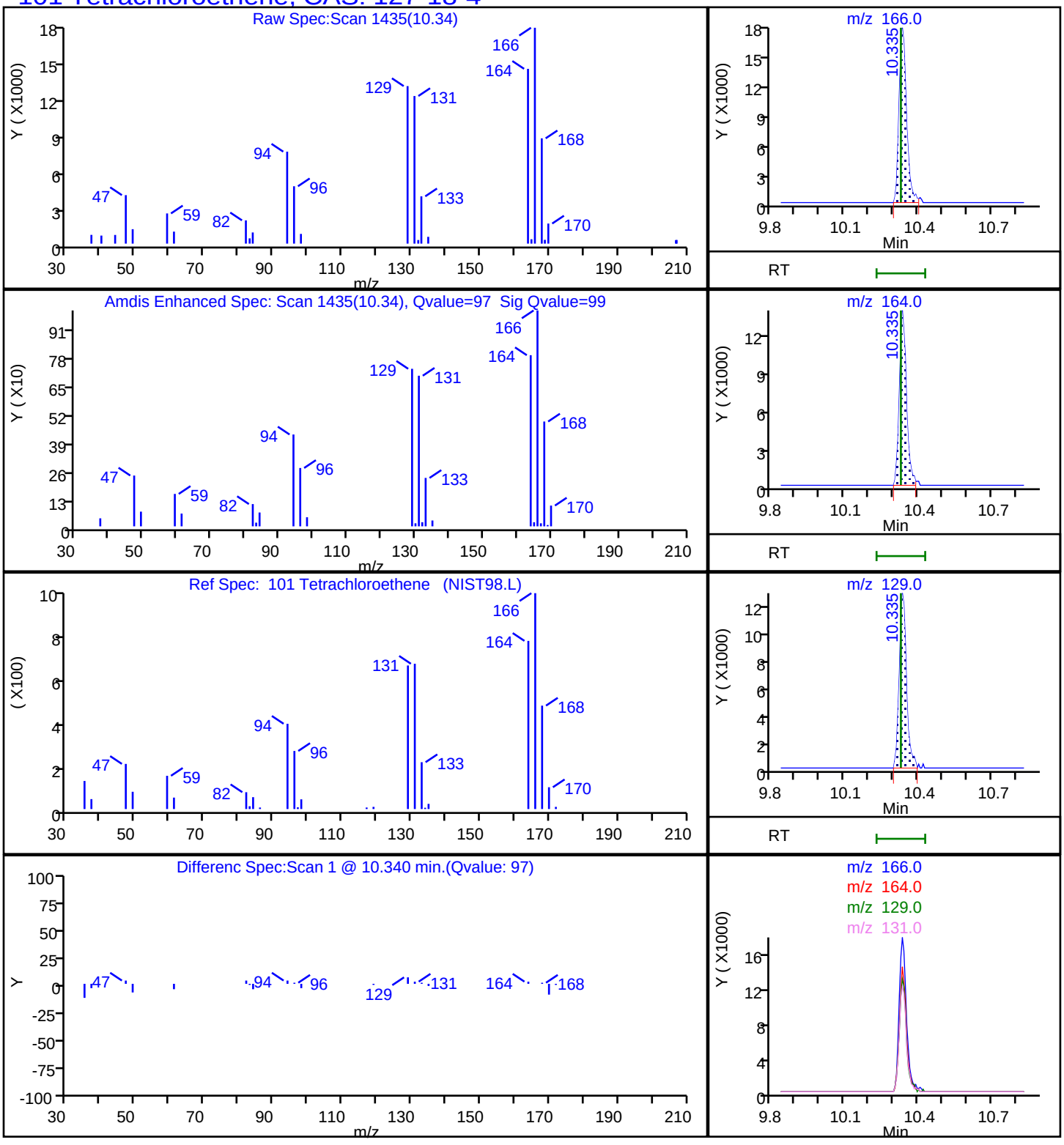
39 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930		
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

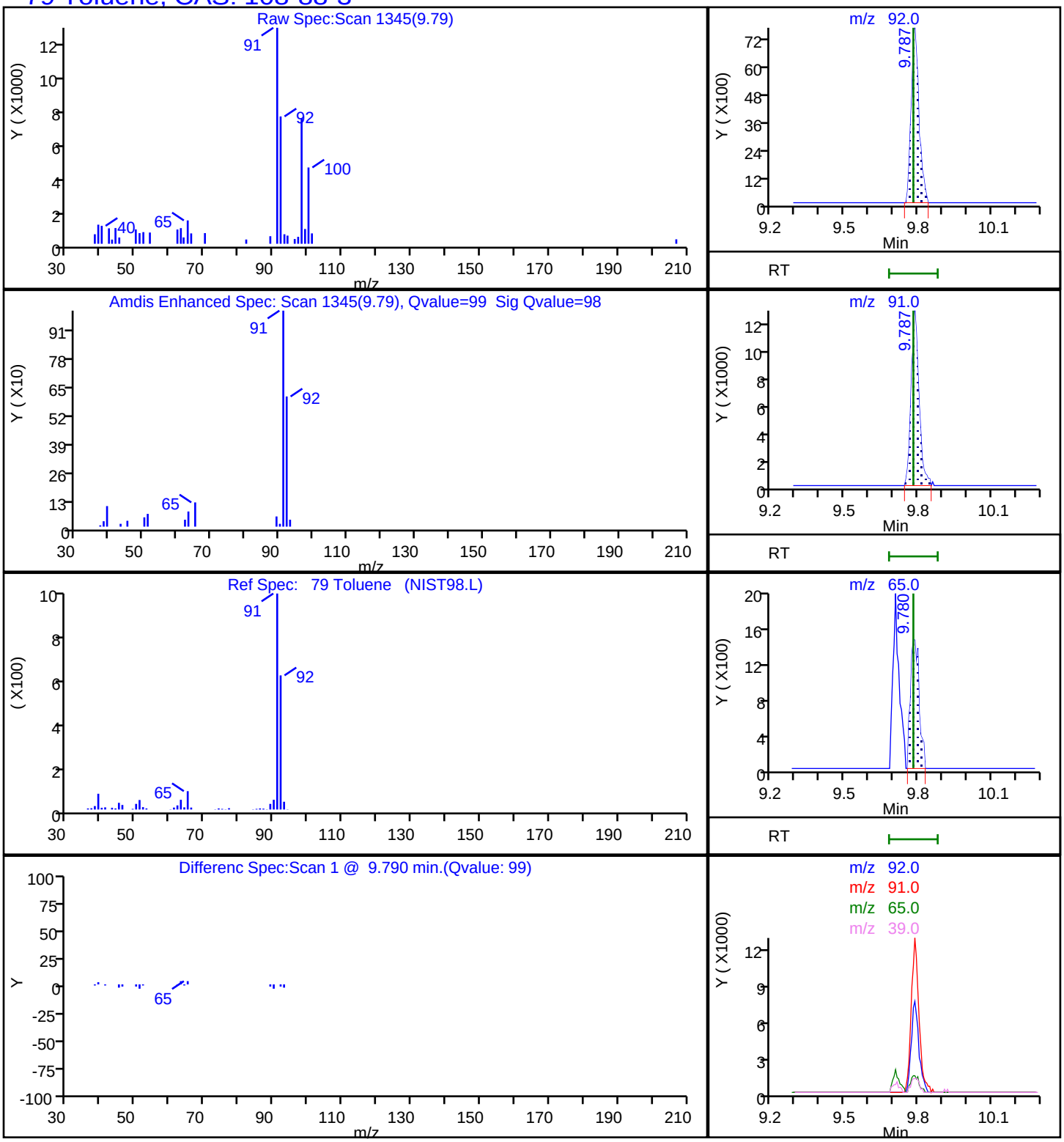
101 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930		
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

79 Toluene, CAS: 108-88-3

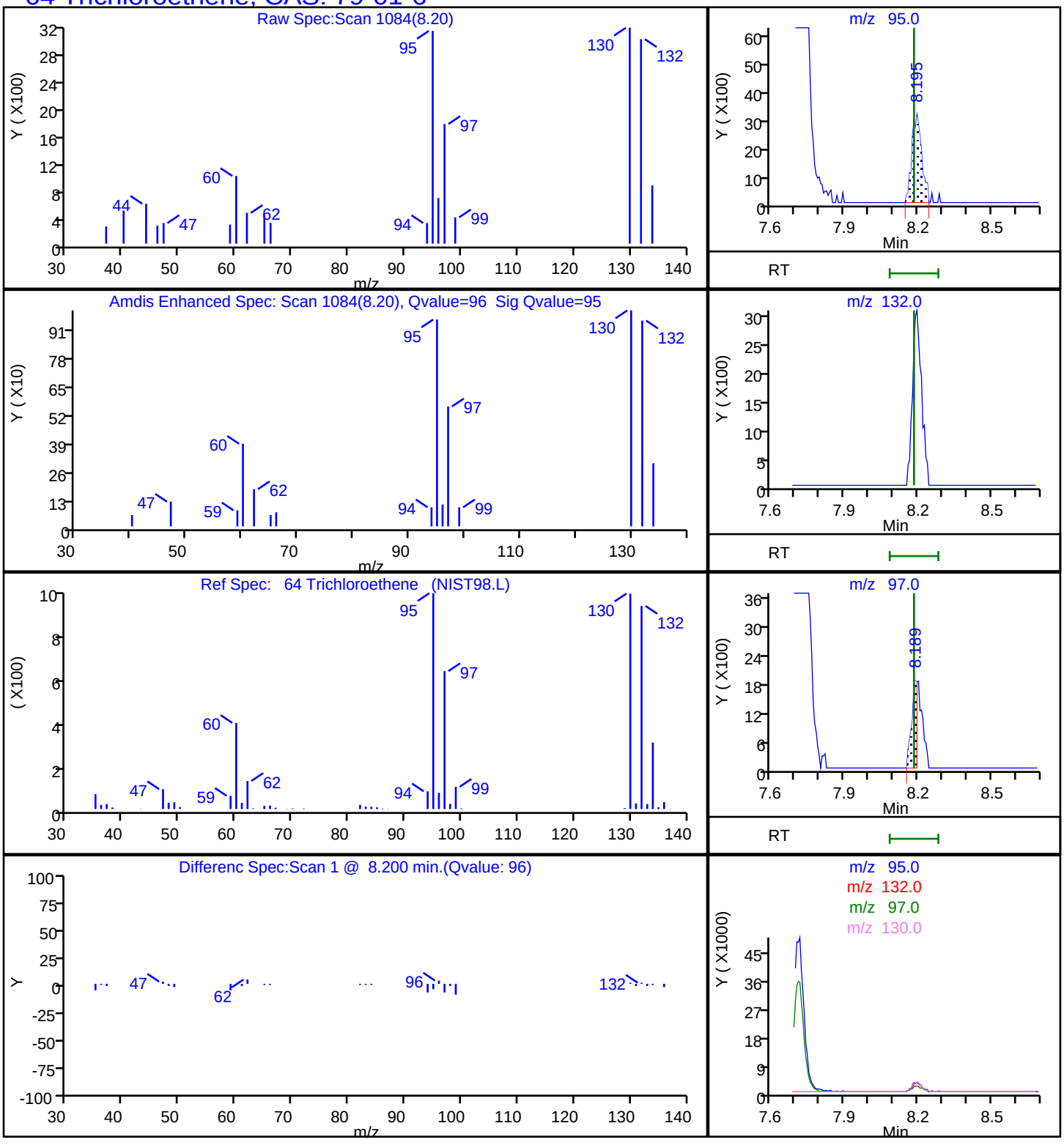


Report Date: 01-Sep-2022 13:02:52 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930		
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

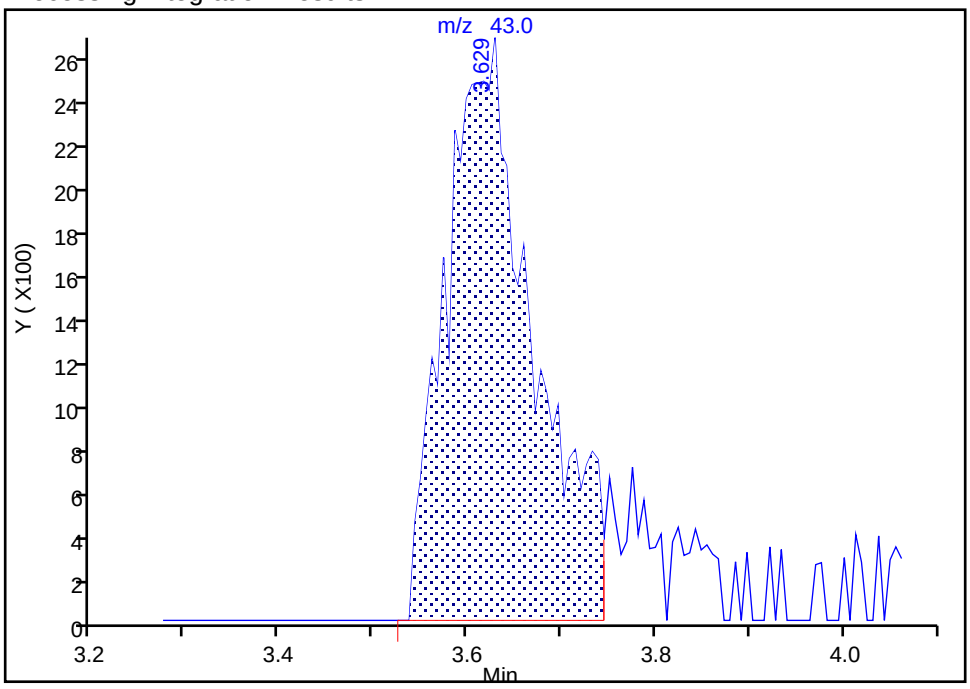
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930		
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Signal: 1

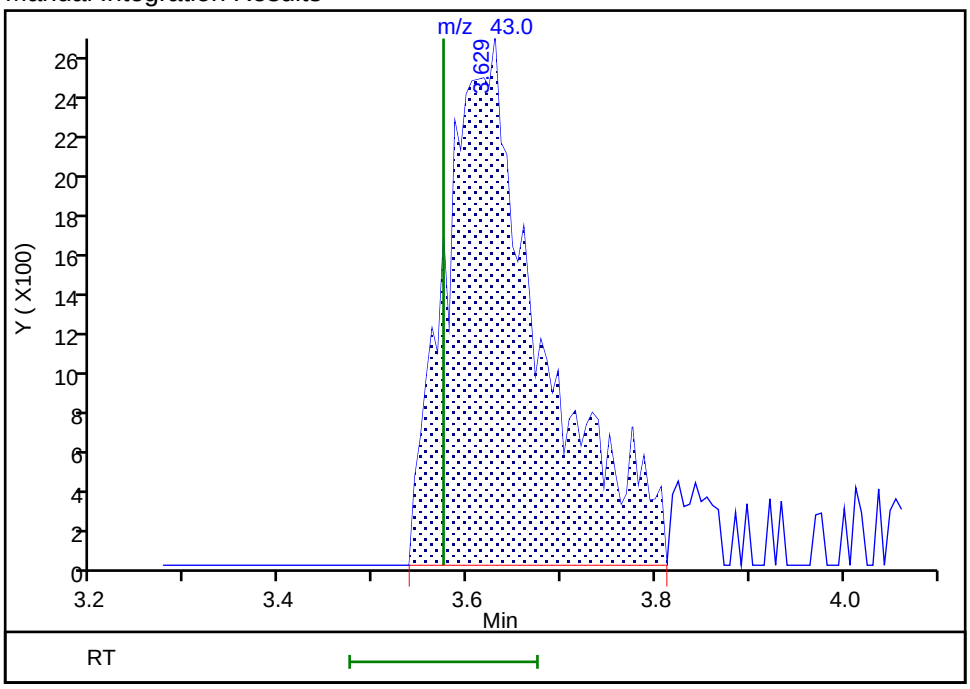
Processing Integration Results

RT: 3.63
Area: 17107
Amount: 2.177906
Amount Units: ug/l



Manual Integration Results

RT: 3.63
Area: 18738
Amount: 2.385550
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:02:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

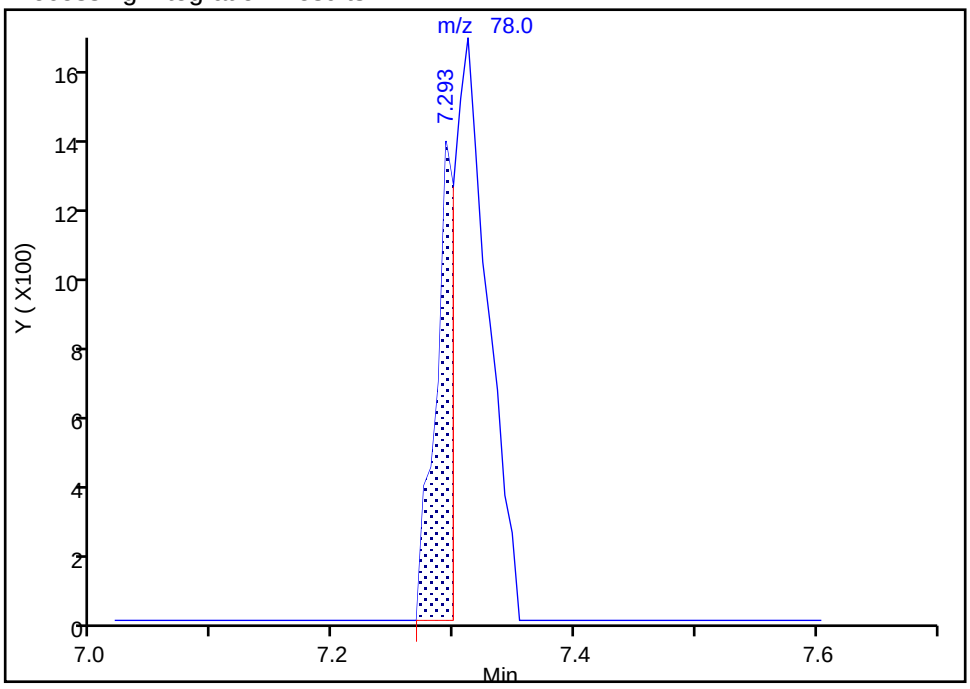
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930		
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

57 Benzene, CAS: 71-43-2

Signal: 1

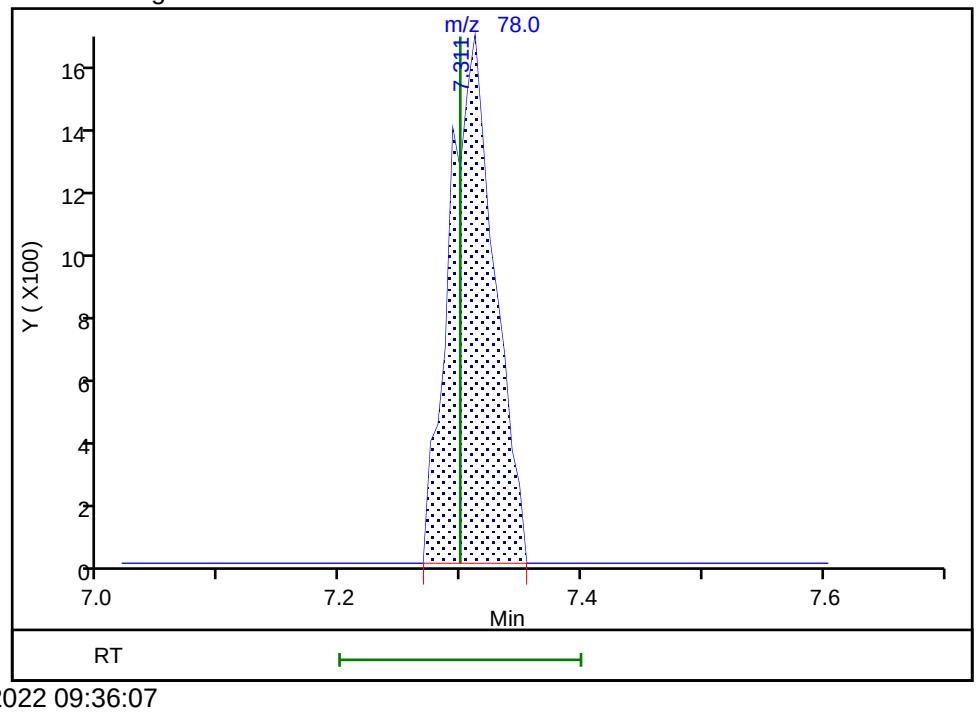
Processing Integration Results

RT: 7.29
Area: 1515
Amount: 0.007790
Amount Units: ug/l



Manual Integration Results

RT: 7.31
Area: 4332
Amount: 0.022275
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:36:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

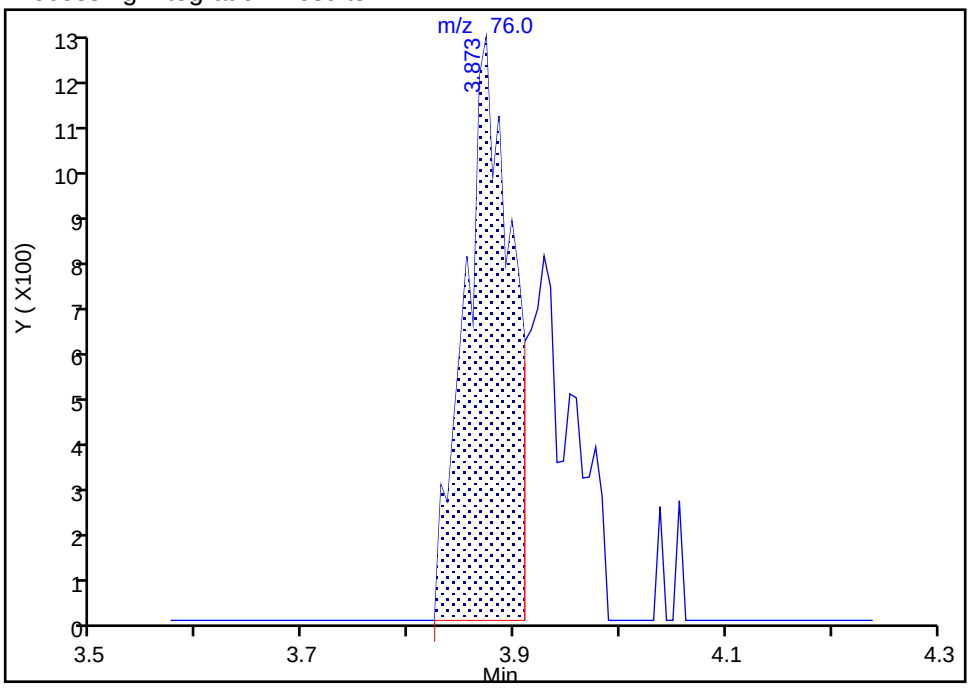
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930		
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Carbon disulfide, CAS: 75-15-0

Signal: 1

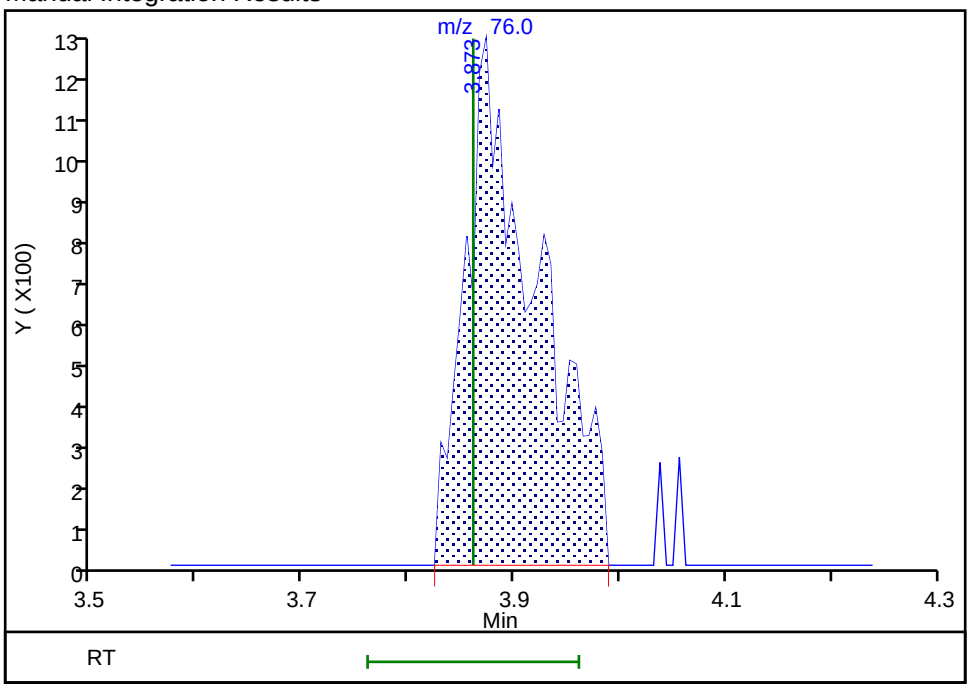
Processing Integration Results

RT: 3.87
Area: 3881
Amount: 0.038104
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 6011
Amount: 0.059017
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:35:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

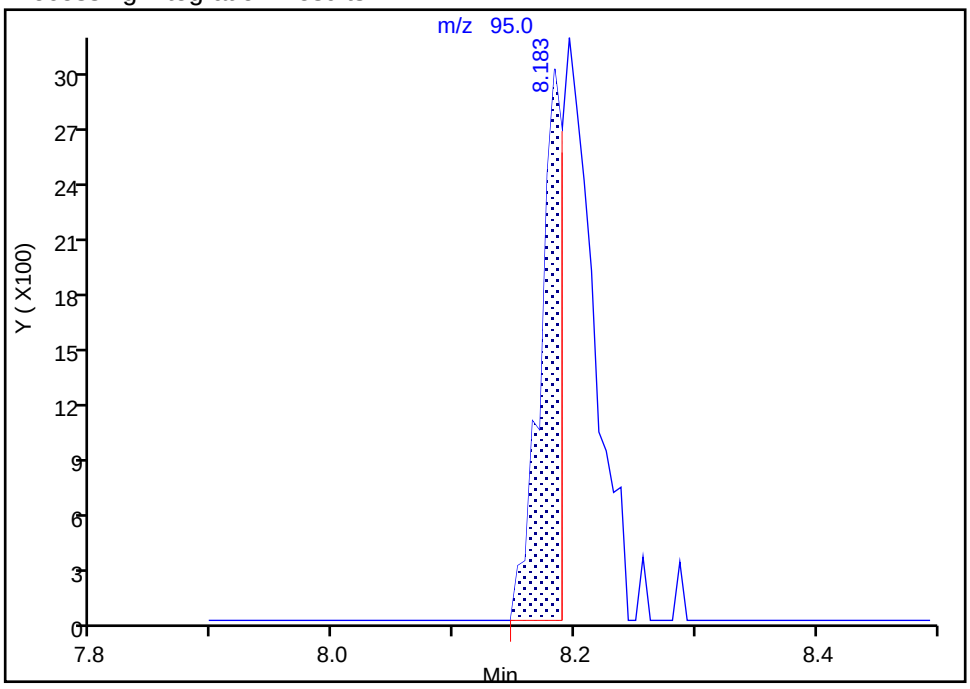
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X13.D				
Injection Date:	31-Aug-2022 13:57:30	Instrument ID:	19930		
Lims ID:	410-95715-A-5	Lab Sample ID:	410-95715-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6

Signal: 1

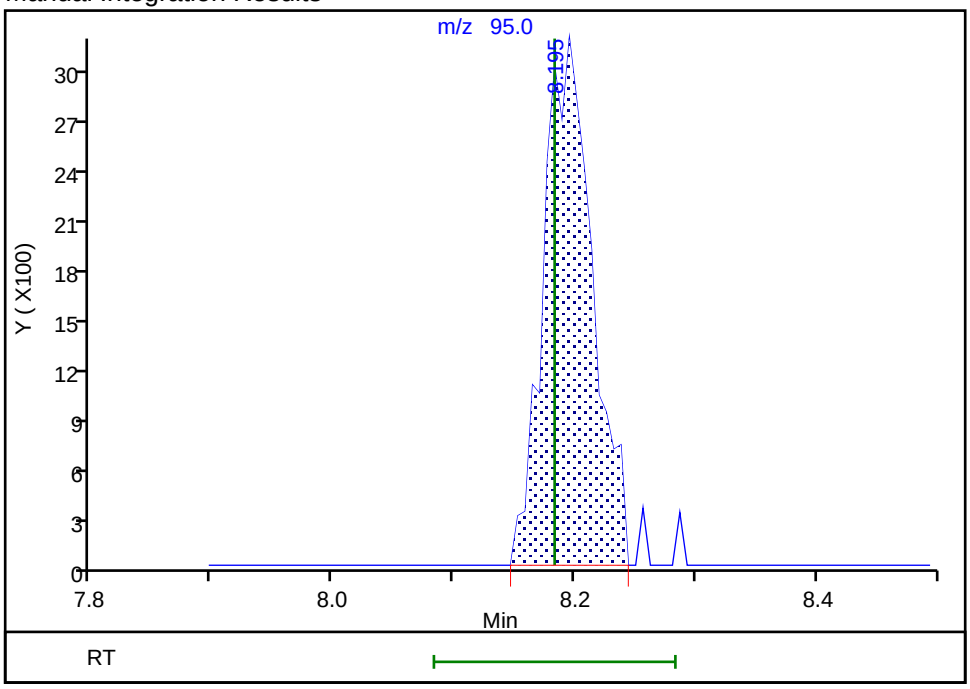
Processing Integration Results

RT: 8.18
Area: 3926
Amount: 0.075849
Amount Units: ug/l



Manual Integration Results

RT: 8.20
Area: 8865
Amount: 0.171270
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:02:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-95715-6

Matrix: Water Lab File ID: IG31X14.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:45

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 14:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	0.25	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	0.13	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.12	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND	^c FH cn	0.50	0.10
67-66-3	Chloroform	0.41	J	0.50	0.090
74-87-3	Chloromethane	ND	^c FH cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	1.4		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	4.8		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-95715-6

Matrix: Water Lab File ID: IG31X14.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:45

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 14:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	1.4		0.50	0.080
75-01-4	Vinyl chloride	ND	^c FH cn	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D
Lims ID: 410-95715-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 14:18:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-015
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:04:37 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:40:46

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	1 Dichlorodifluoromethane	85		1.940				ND	
	2 Chlorodifluoromethane	51		1.983				ND	
	3 Dimethyl ether	45		2.044				ND	
	4 Chloromethane	50		2.136				ND	
	5 Vinyl chloride	62		2.245				ND	
	6 Butadiene	39		2.264				ND	7
	7 Bromomethane	94		2.593				ND	
	8 Chloroethane	64		2.696				ND	
	9 Dichlorofluoromethane	67		2.904				ND	
	10 Trichlorofluoromethane	101		2.946				ND	
	11 Ethyl ether	59		3.239				ND	
T	12 Ethanol TIC	45		3.288				ND	7
	13 1,2-Dichloro-1,1,2-trifluoroetha	67		3.306				ND	
	14 Acrolein	56	3.410	3.416	-0.006	21	3470	0.5498	7M
	15 1,1-Dichloroethene	96	3.562	3.556	0.006	92	4985	0.1201	M
	16 Acetone	43		3.574				ND	U
	17 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.611				ND	
	18 Iodomethane	142		3.757				ND	
	19 Ethyl bromide	108		3.788				ND	
	20 Carbon disulfide	76	3.885	3.861	0.024	1	2508	0.0241	7M
	21 Acetonitrile	41		3.983				ND	
T	22 Acetonitrile TIC	41		4.001				ND	
	23 Methyl acetate	43		4.001				ND	
	24 3-Chloro-1-propene	41		4.032				ND	
	25 Methylene Chloride	84		4.221				ND	
*	26 t-Butyl alcohol-d10 (IS)	65	4.245	4.251	-0.006	24	135030	50.0	
	27 2-Methyl-2-propanol	59		4.355				ND	
	28 Acrylonitrile	53		4.556				ND	
	29 Methyl tert-butyl ether	73		4.635				ND	7
	30 trans-1,2-Dichloroethene	96		4.647				ND	
	31 Hexane	57		5.062				ND	
	32 1,1-Dichloroethane	63	5.318	5.293	0.025	94	11084	0.1313	a

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	33 Vinyl acetate	43		5.312				ND	
T	34 Vinyl acetate (TIC)	43		5.336				ND	
	35 Isopropyl ether	45		5.361				ND	
	36 2-Chloro-1,3-butadiene	53		5.403				ND	
	37 Tert-butyl ethyl ether	59		5.891				ND	7
	38 2-Butanone (MEK)	43		6.086				ND	
	39 cis-1,2-Dichloroethene	96	6.135	6.123	0.012	79	71749	1.39	
	40 2,2-Dichloropropane	77		6.135				ND	
S	41 1,2-Dichloroethene, Total	100				0		1.39	
	43 Propionitrile	54		6.171				ND	
	42 Ethyl acetate	43		6.171				ND	
	44 Methyl acrylate	55		6.220				ND	
	45 Methacrylonitrile	67		6.385				ND	
	46 Chlorobromomethane	128		6.452				ND	
	47 Tetrahydrofuran	71		6.458				ND	
	48 Chloroform	83	6.610	6.604	0.006	93	34729	0.4102	
$	49 Dibromofluoromethane (Surr)	113	6.824	6.811	0.013	93	456855	11.1	
	50 1,1,1-Trichloroethane	97	6.830	6.824	0.006	36	18634	0.2459	
	51 Cyclohexane	56		6.927				ND	
	52 1-Chlorobutane	56		7.019				ND	
	53 1,1-Dichloropropene	75		7.037				ND	
	54 Carbon tetrachloride	117	7.043	7.043	0.000	1	2137	0.0316	
	55 Isobutyl alcohol	41		7.177				ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	56	89906	10.6	
	57 Benzene	78		7.299				ND	7
	58 1,2-Dichloroethane	62		7.372				ND	
	59 Isopropyl acetate	43		7.391				ND	
	60 Tert-amyl methyl ether	73		7.494				ND	
*	61 Fluorobenzene (IS)	96	7.708	7.702	0.006	99	1637827	10.0	
	62 n-Heptane	43		7.714				ND	
	63 n-Butanol	56		8.061				ND	
	64 Trichloroethene	95	8.189	8.183	0.006	97	72188	1.37	
	65 Methylcyclohexane	83		8.494				ND	
	66 1,2-Dichloropropane	63		8.506				ND	
	67 Methyl methacrylate	69		8.592				ND	
	68 1,4-Dioxane	88		8.598				ND	
	69 Dibromomethane	93		8.616				ND	
	70 n-Propyl acetate	43		8.683				ND	
	71 Dichlorobromomethane	83		8.854				ND	
	72 2-Nitropropane	41		9.116				ND	
	73 2-Chloroethyl vinyl ether	63		9.226				ND	
	74 Chloroacetonitrile	75		9.226				ND	
	75 1-Bromo-2-chloroethane	63		9.244				ND	
	76 cis-1,3-Dichloropropene	75		9.396				ND	
	77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	
$	78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	1673359	9.43	
	79 Toluene	92	9.793	9.780	0.013	96	7518	0.0536	a
T	80 Chloroacetaldehyde TIC	50		10.000				ND	U
T	81 Monochloroacetic acid TIC	50		10.000				ND	
T	82 Epichlorohydrin TIC	57		10.000				ND	U
T	83 2,3-Dibromopropene TIC	119		10.000				ND	U
T	84 3-Chloro-1,2-propanediol TIC	44		10.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 85 2,3-Dibromo-1-propanol TIC	57		10.000				ND	U
T 86 2-Bromoethanol TIC	45		10.000				ND	U
T 87 2-Chloroethanol TIC	44		10.000				ND	
T 92 2-Bromo-3-chloropropene TIC	75		10.000				ND	U
T 89 Ethylene oxide TIC	44		10.000				ND	U
T 90 Vinyl bromide TIC	106		10.000				ND	U
T 91 Epibromohydrin TIC	57		10.000				ND	
T 93 Nitrobenzene TIC	77		10.000				ND	U
T 88 Isopropyl alcohol TIC	45		10.000				ND	U
T 94 Hexachloroethane TIC	117		10.000				ND	U
T 95 Decamethylcyclopentasiloxane TIC	73		10.000				ND	U
T 96 Octamethylcyclotetrasiloxane TIC	281	12.188	10.000	2.188	97	12087	0.0738	
97 trans-1,3-Dichloropropene	75		10.036				ND	
S 98 1,3-Dichloropropene, Total	100		10.060				ND	7
99 Ethyl methacrylate	69		10.097				ND	
100 1,1,2-Trichloroethane	97		10.238				ND	7
101 Tetrachloroethene	166	10.335	10.329	0.006	98	318094	4.75	
102 1,3-Dichloropropane	76		10.402				ND	
103 2-Hexanone	43		10.445				ND	
104 n-Butyl acetate	43		10.573				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1367582	10.0	
108 1-Chlorohexane	91		11.164				ND	7
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	7
116 Bromoform	173		11.884				ND	
117 Isopropylbenzene	105		12.012				ND	
119 Cyclohexanone	55		12.097				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	91	623257	9.58	a
118 cis-1,4-Dichloro-2-butene	88	12.158	12.158	0.000	99	25395	2.04	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
122 Bromobenzene	156		12.274				ND	
123 trans-1,4-Dichloro-2-butene	53		12.274				ND	
124 1,2,3-Trichloropropane	110		12.298				ND	
125 N-Propylbenzene	91		12.335				ND	
126 2-Chlorotoluene	126		12.414				ND	
127 1,3,5-Trimethylbenzene	105		12.475				ND	7
128 4-Chlorotoluene	126		12.505				ND	
129 tert-Butylbenzene	134		12.713				ND	
130 Pentachloroethane	167		12.749				ND	
131 1,2,4-Trimethylbenzene	105		12.755				ND	7
132 sec-Butylbenzene	105		12.877				ND	
133 1,3-Dichlorobenzene	146		12.981				ND	7
134 4-Isopropyltoluene	119		12.987				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	738695	10.0	
136 1,4-Dichlorobenzene	146		13.054				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
137 1,2,3-Trimethylbenzene	120		13.060				ND	7
138 Benzyl chloride	126		13.127				ND	
139 n-Butylbenzene	92		13.274				ND	
140 1,2-Dichlorobenzene	146		13.310				ND	
141 Hexachloroethane	117		13.542				ND	
142 1,2-Dibromo-3-Chloropropane	155		13.853				ND	
143 1,3,5-Trichlorobenzene	180		13.981				ND	
144 1,2,4-Trichlorobenzene	180		14.401				ND	
145 Hexachlorobutadiene	225		14.481				ND	
146 Naphthalene	128		14.584				ND	
147 1,2,3-Trichlorobenzene	180		14.725				ND	
148 Dodecane	57		0.000				ND	
149 2-Chloro-1,1,1-Trifluoroethane	1		0.000				ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	
151 1,1-Dichloroacetone	1		0.000				ND	
152 n-Decane	57		0.000				ND	
153 1-Bromo-3-Chloropropane	1		0.000				ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
155 2-Methylnaphthalene	142		0.000				ND	
156 p-Diethylbenzene	1		0.000				ND	
157 t-Amyl alcohol	1		0.000				ND	
158 Methylal	1		0.000				ND	
159 tert-Butyl Formate	1		0.000				ND	
160 2-Bromo-1-chloropropane	1		0.000				ND	
161 Pentane	43		0.000				ND	
162 Chlorotrifluoroethene	1		0.000				ND	
163 Propene oxide	1		0.000				ND	
164 1-Chloropropane	1		0.000				ND	
165 Isopropyl alcohol	45		0.000				ND	
166 Ethanol	45		3.269				ND	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

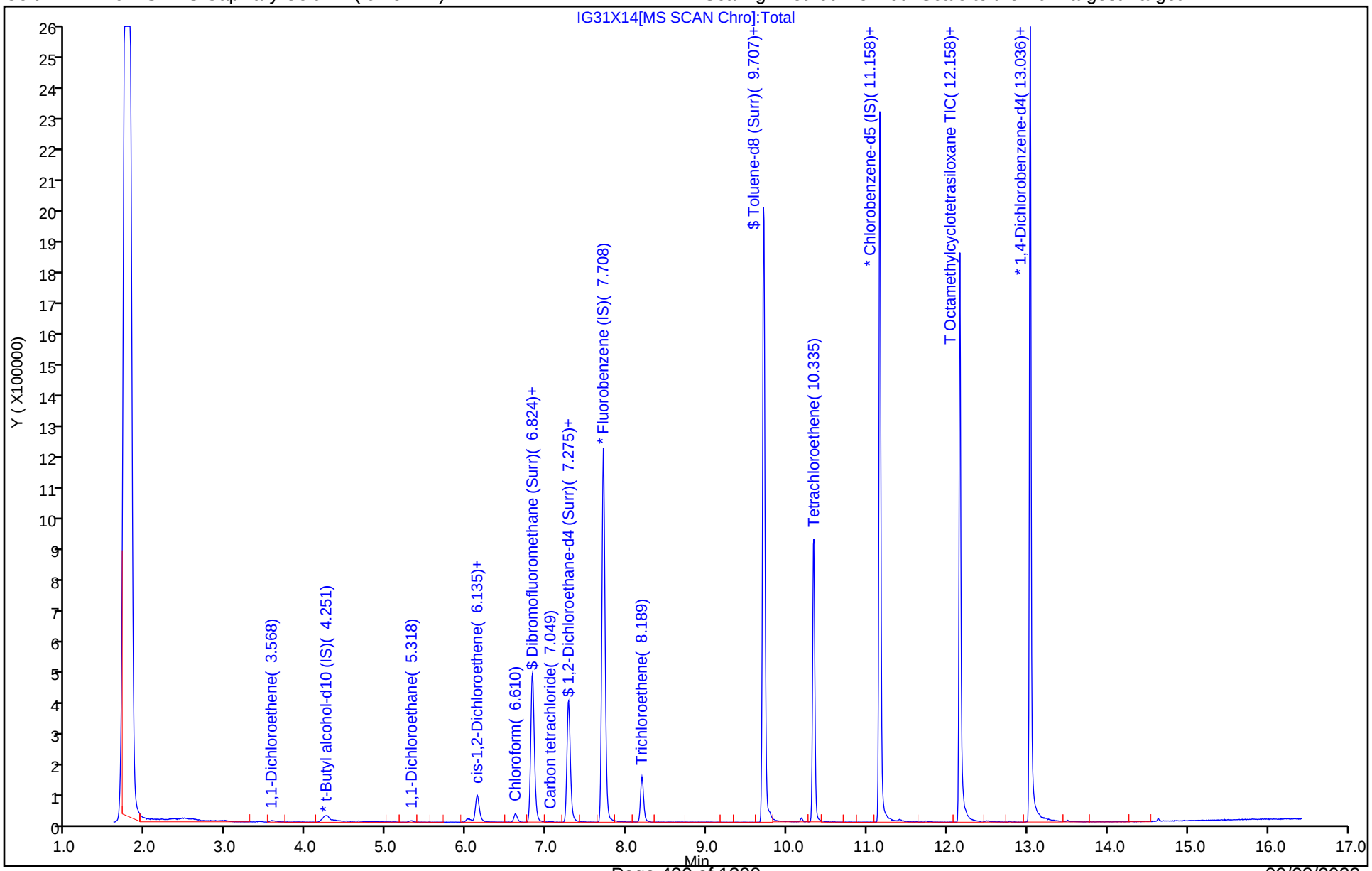
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Sep-2022 13:04:37 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6	Worklist Smp#:	15
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Lims ID:	410-95715-A-6				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 14:18:30	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-015				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 13:04:37	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:40:46

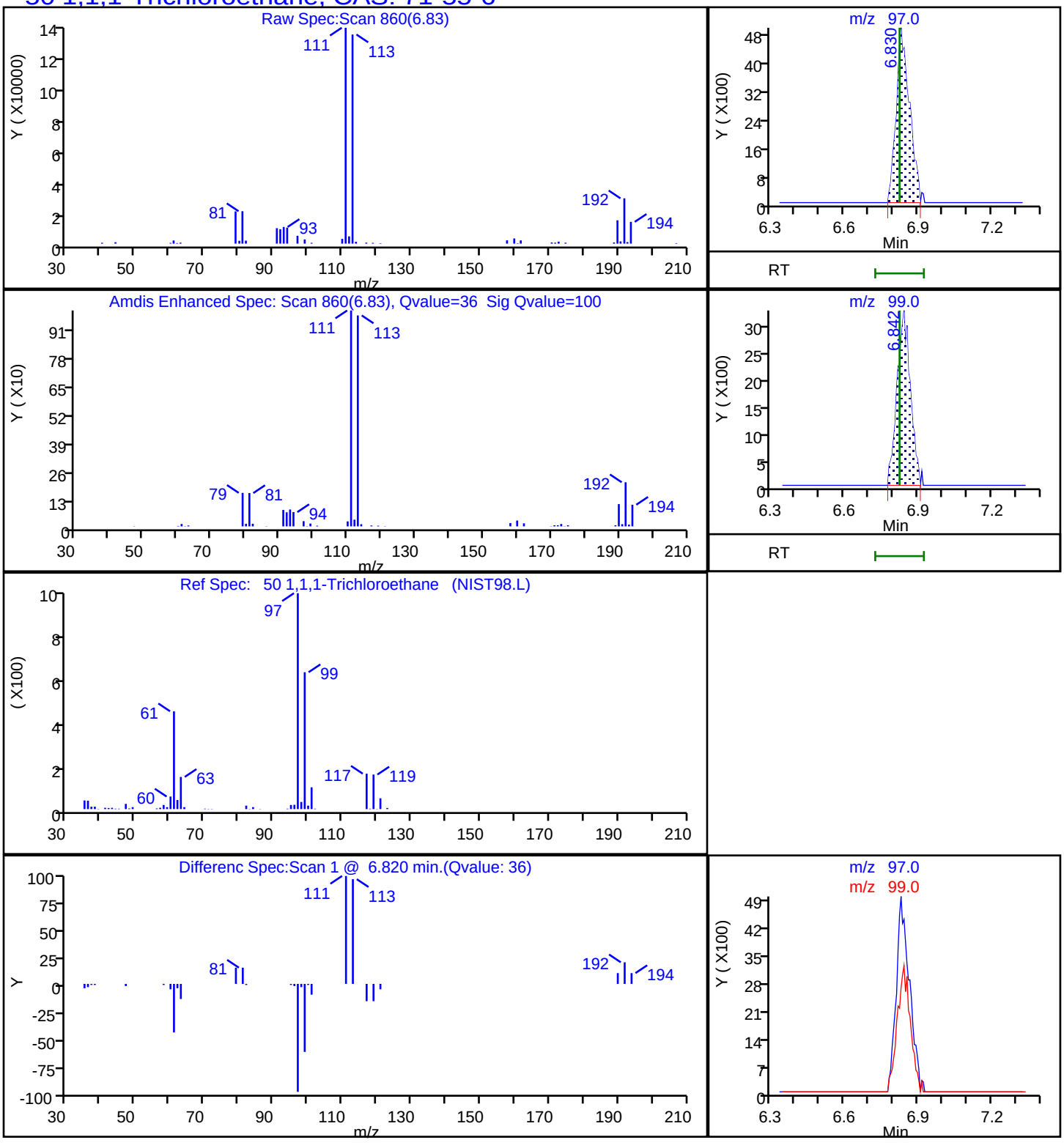
Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.1	111.11
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.45
$ 78 Toluene-d8 (Surr)	10.0	9.43	94.29
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.58	95.78

Report Date: 01-Sep-2022 13:04:38 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

50 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Environment Testing, LLC

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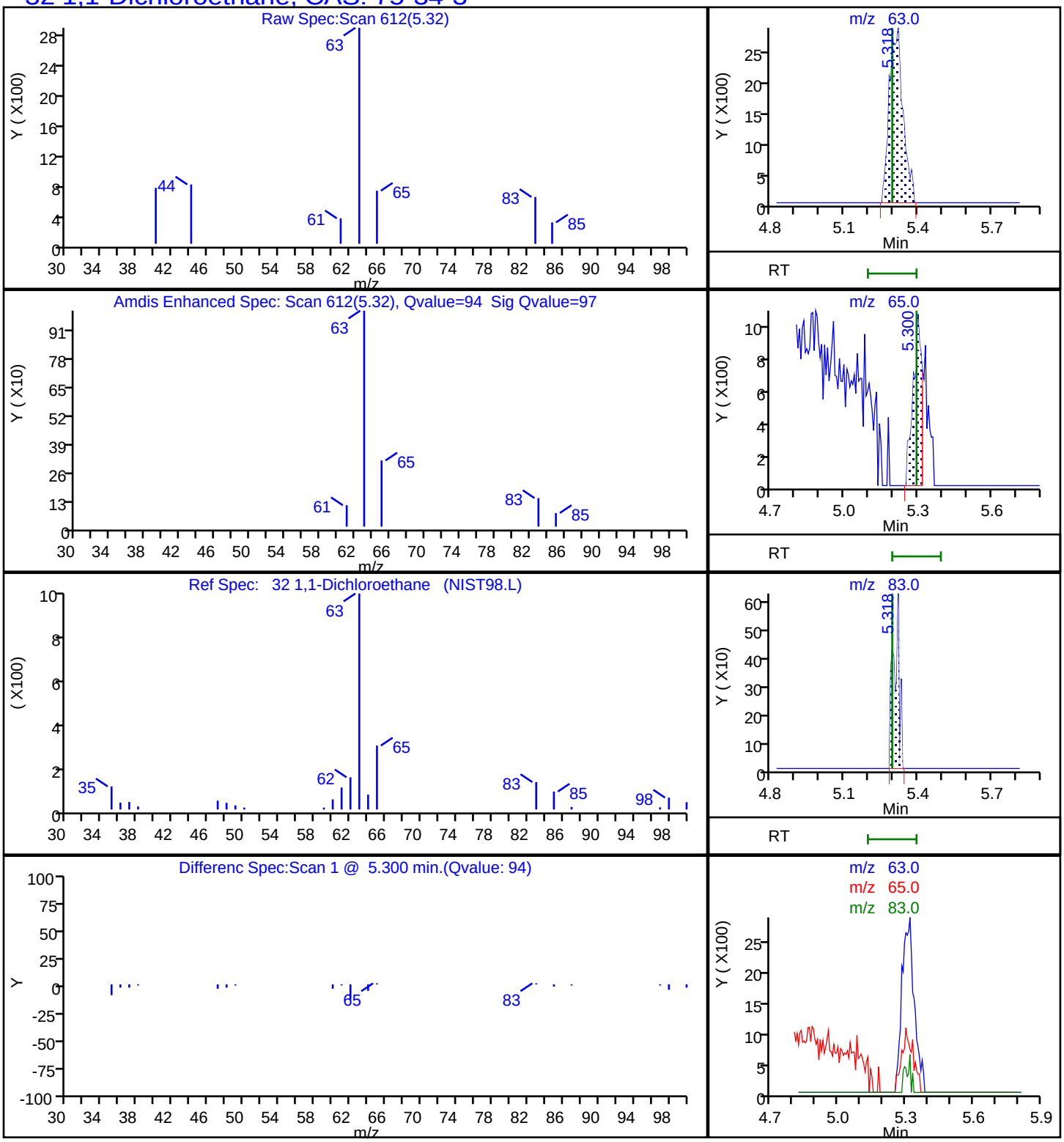
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

32 1,1-Dichloroethane, CAS: 75-34-3



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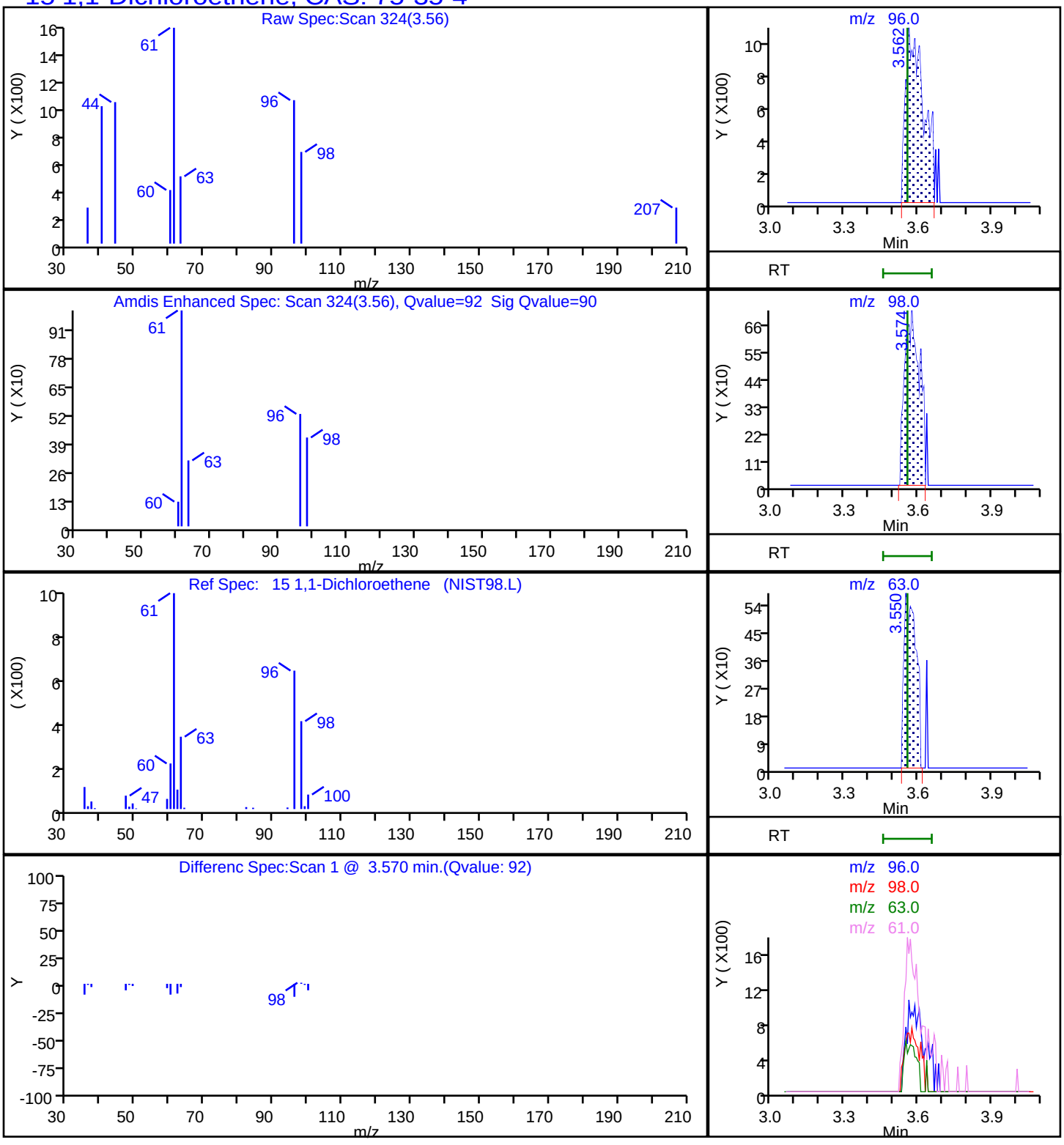
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

15 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

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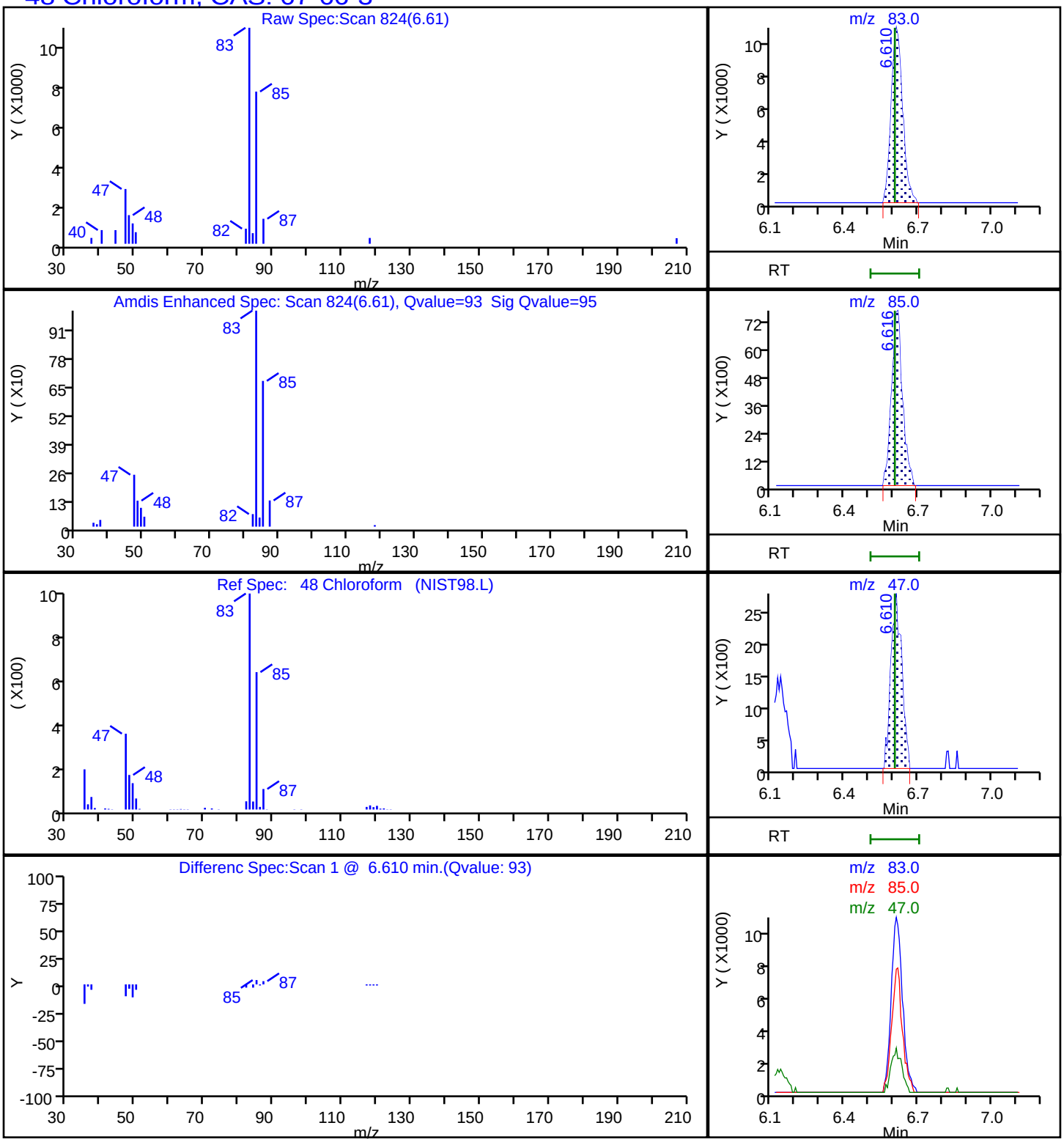
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

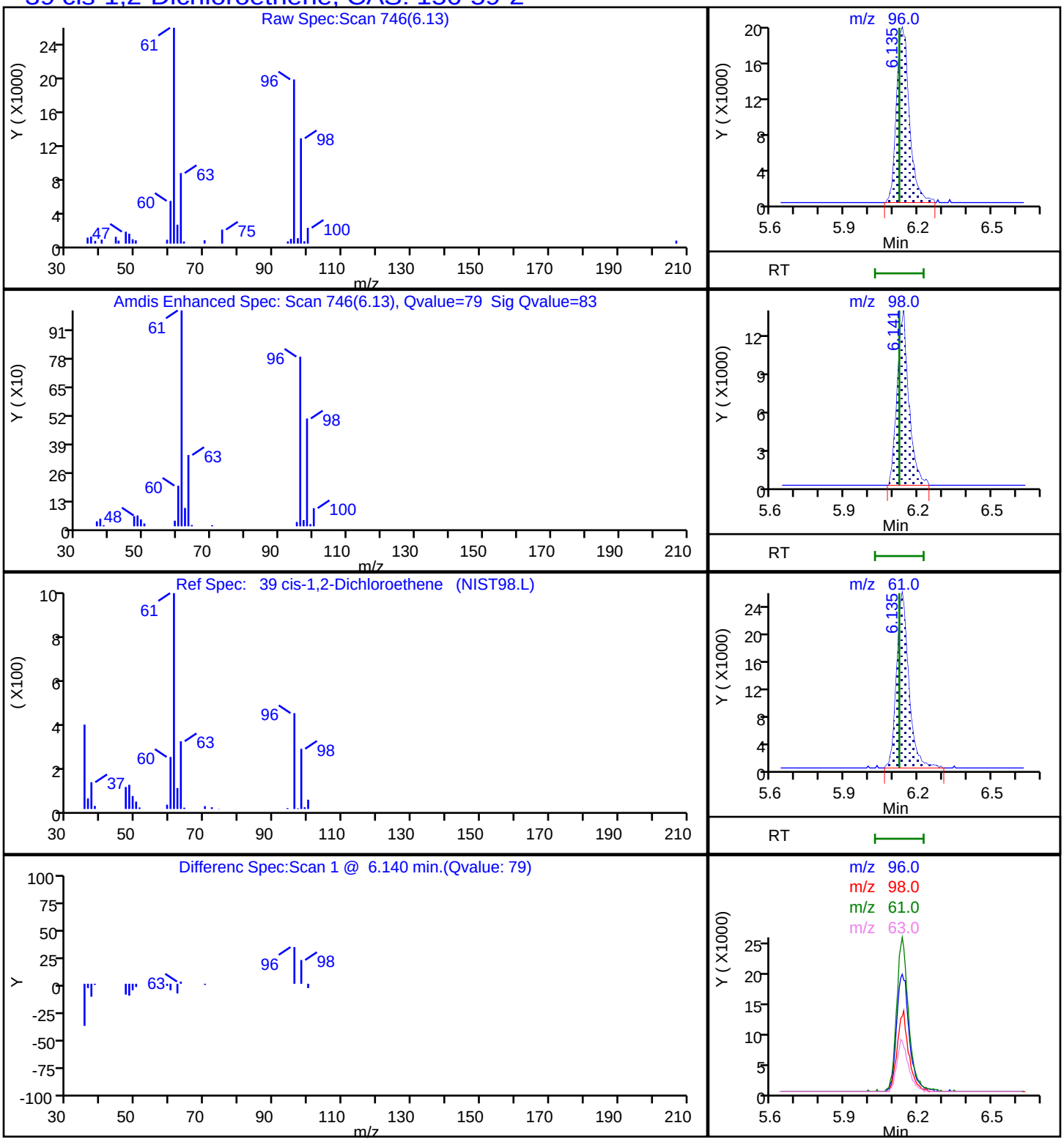
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
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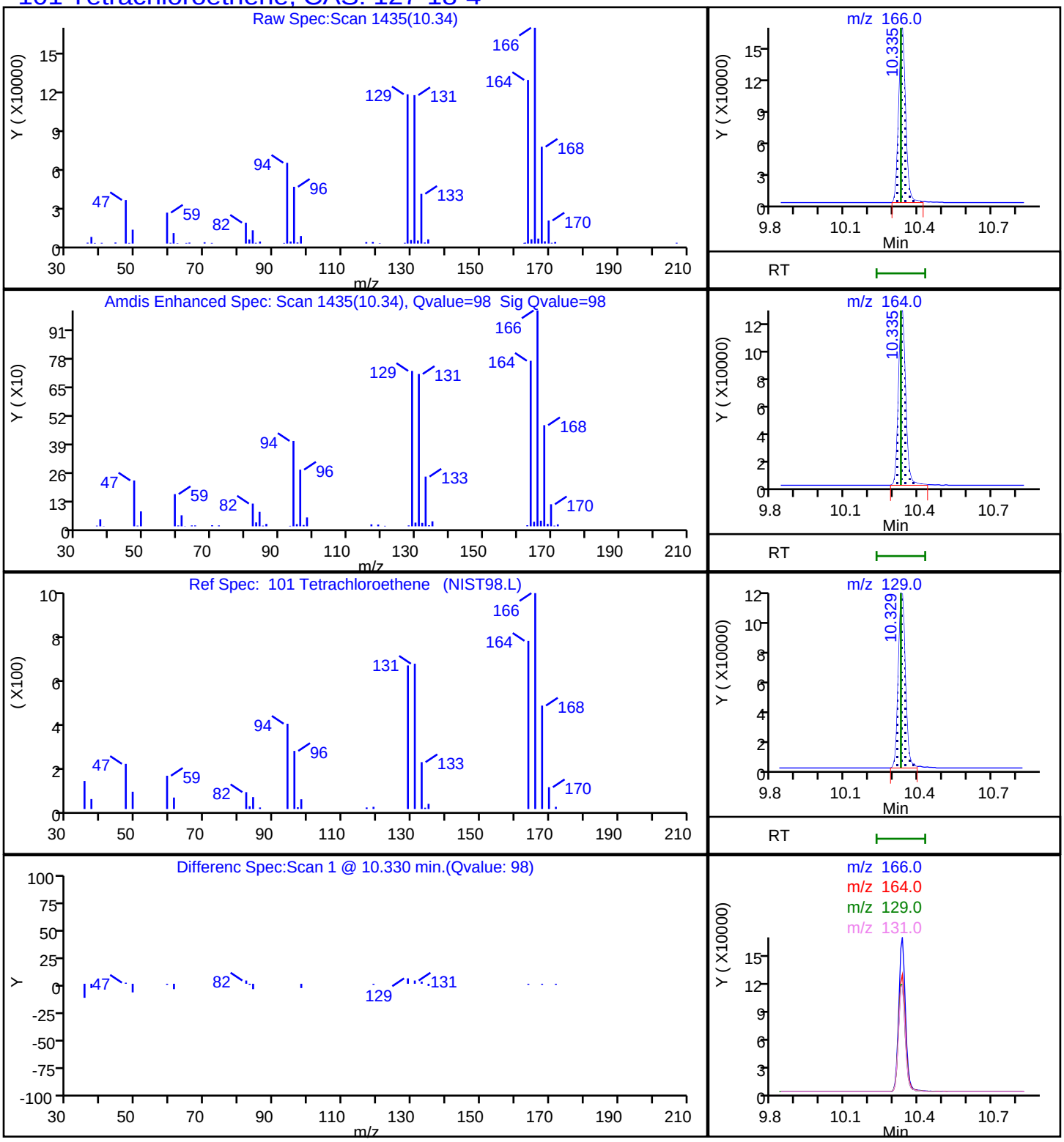
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

101 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
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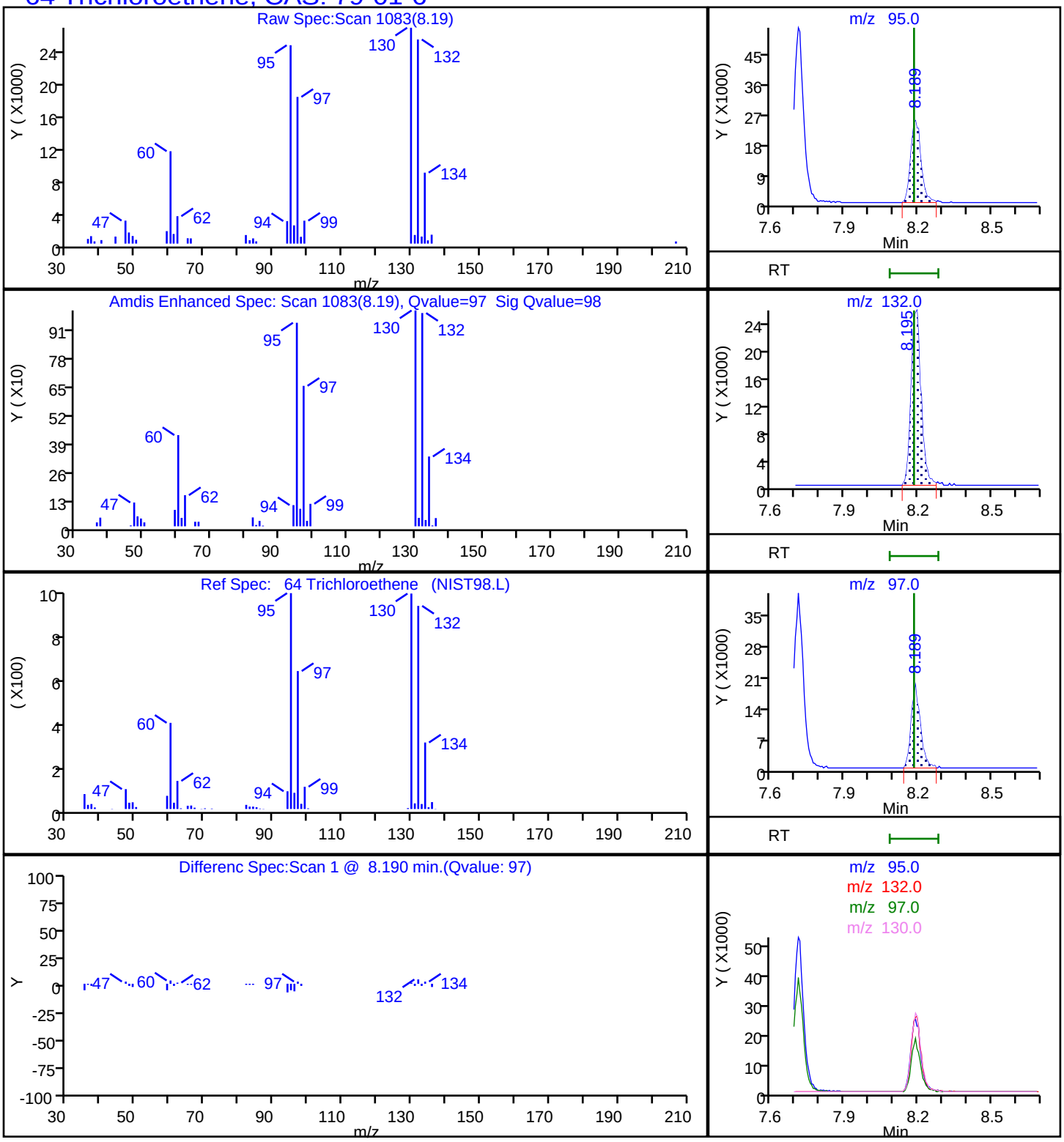
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

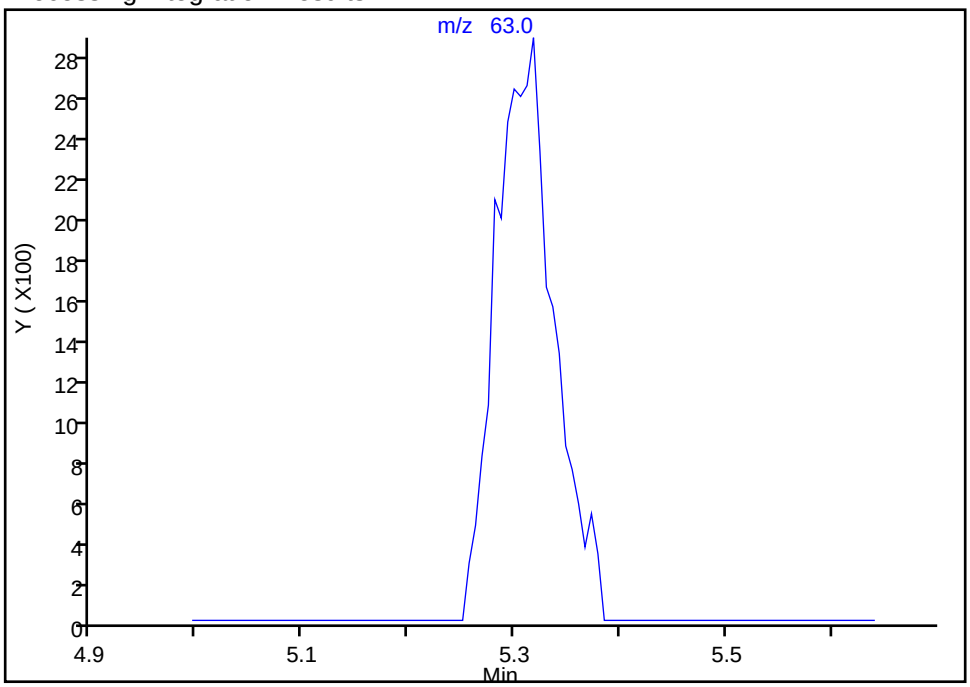
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

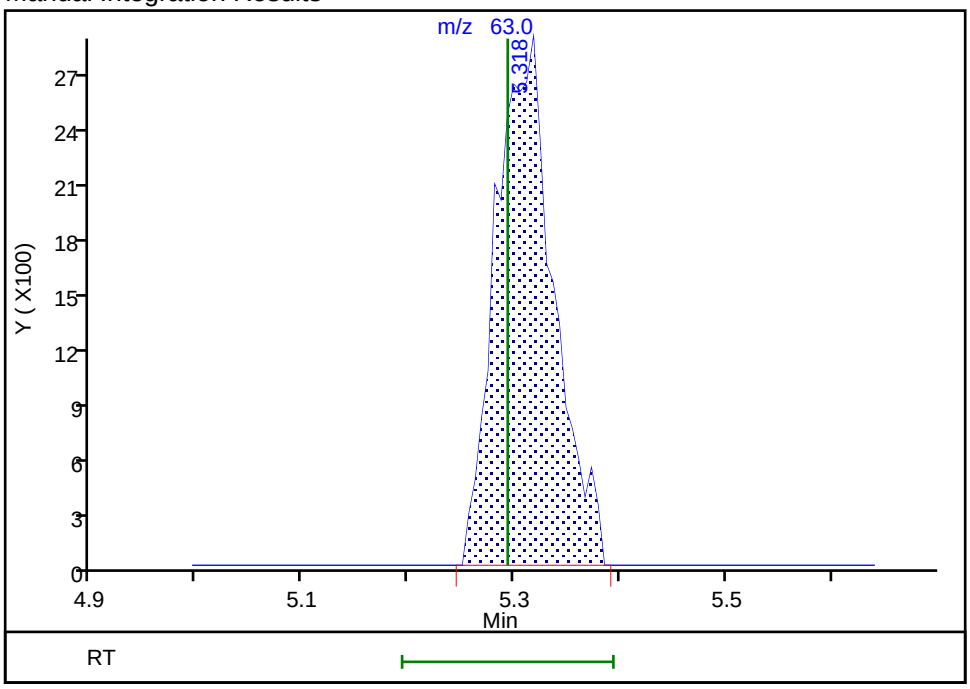
Not Detected
Expected RT: 5.29

Processing Integration Results



Manual Integration Results

RT: 5.32
Area: 11084
Amount: 0.131289
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:38:29
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

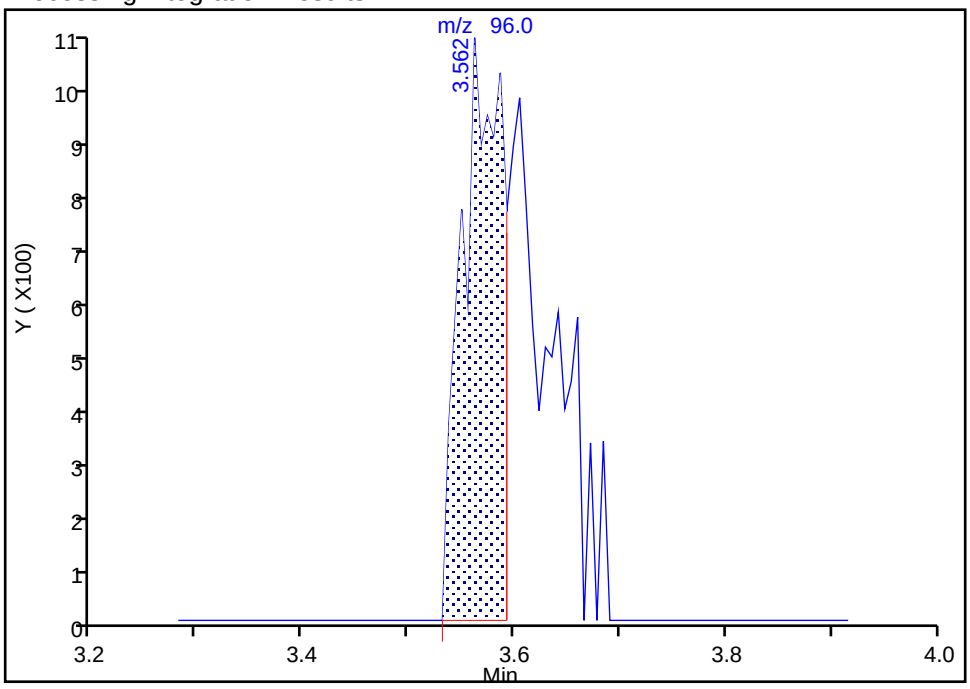
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

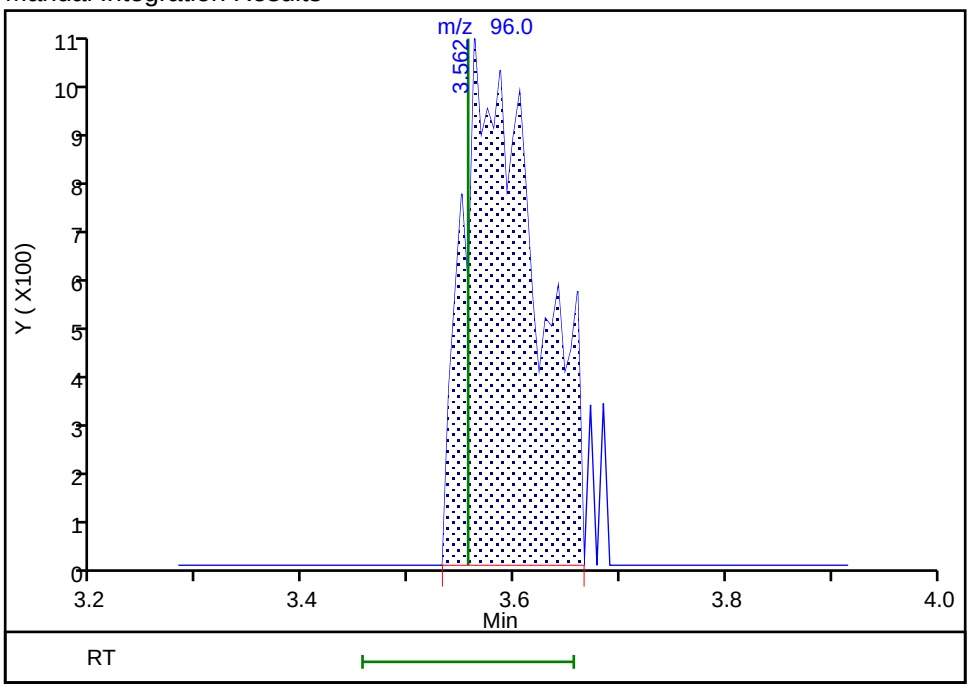
Processing Integration Results

RT: 3.56
Area: 2716
Amount: 0.065409
Amount Units: ug/l



Manual Integration Results

RT: 3.56
Area: 4985
Amount: 0.120053
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:03:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

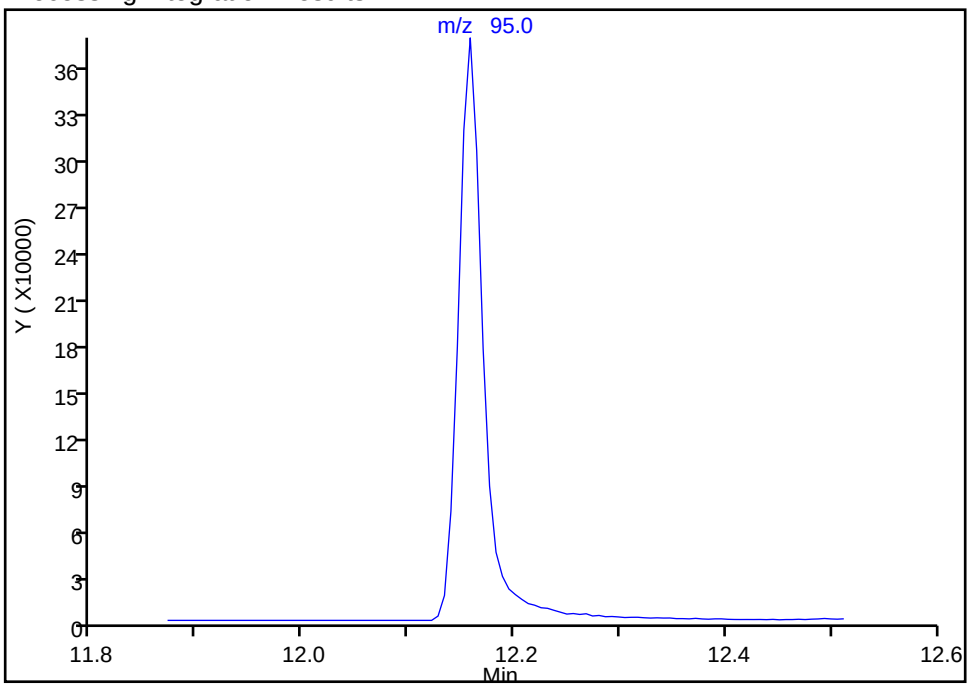
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

$ 120 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 1

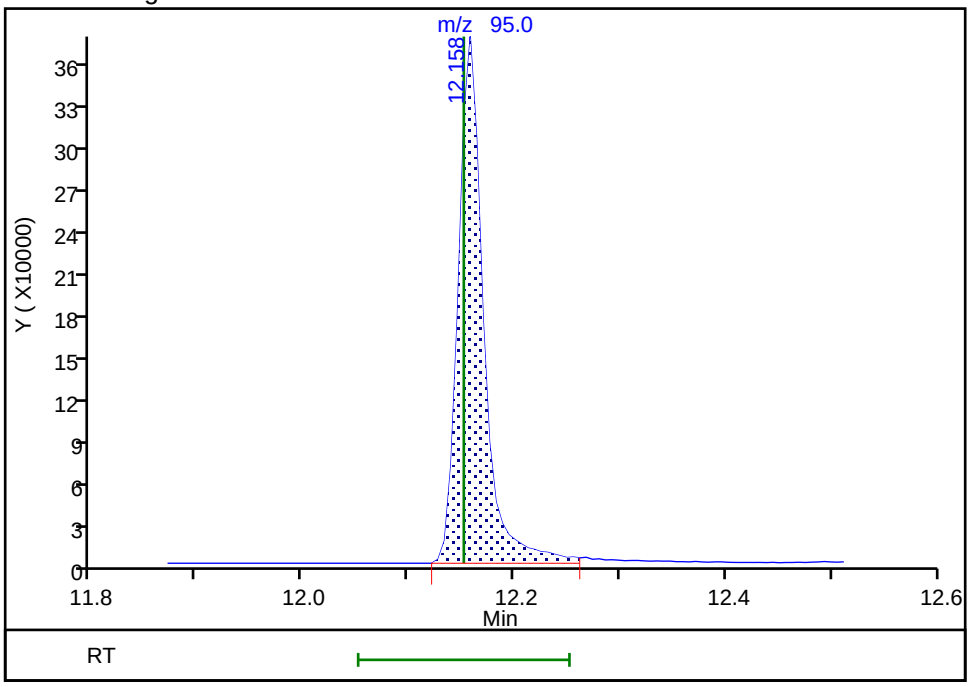
Not Detected
Expected RT: 12.15

Processing Integration Results



Manual Integration Results

RT: 12.16
Area: 623257
Amount: 9.577536
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:37:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

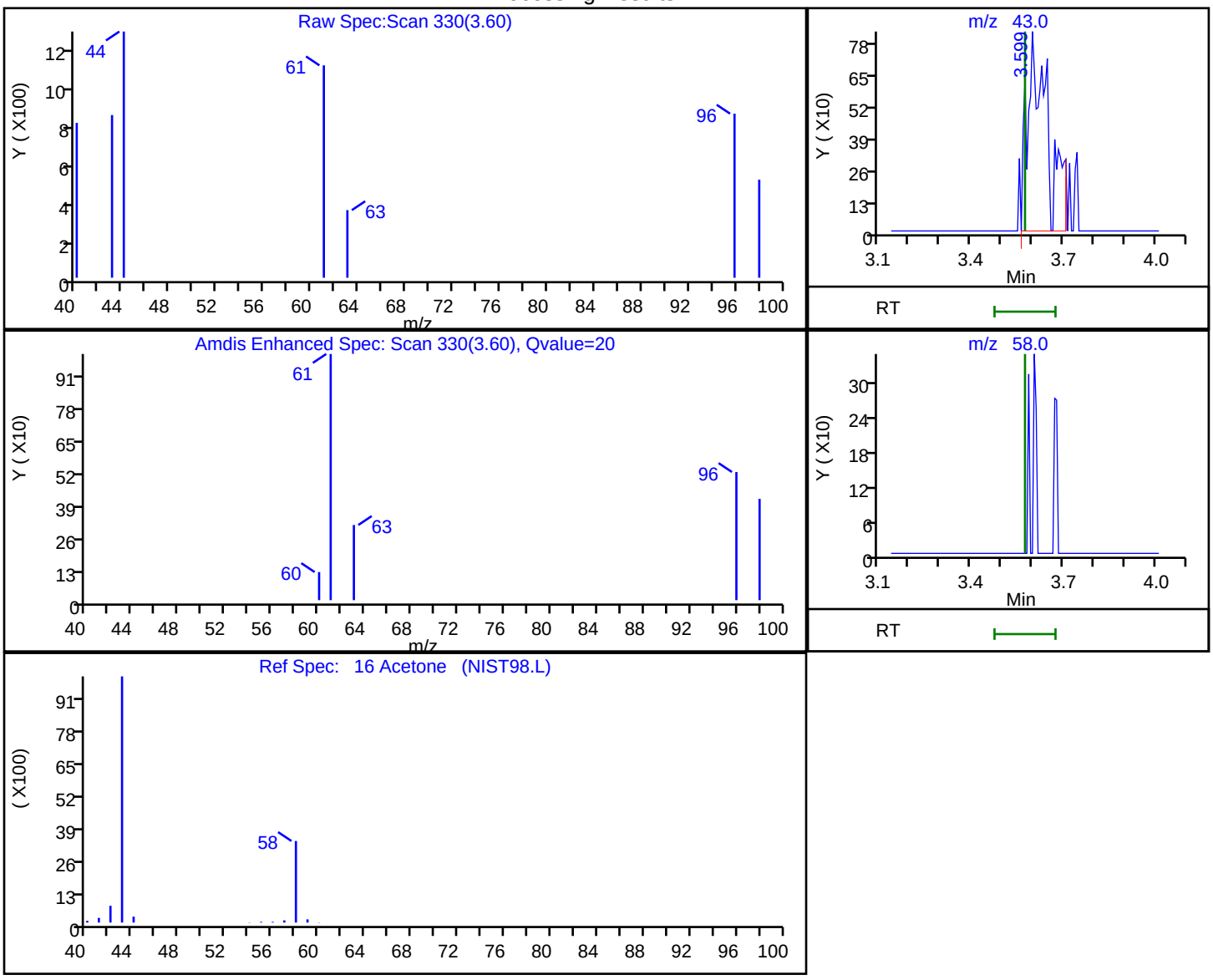
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.60	43.00	3816	0.512226
3.57	58.00	0	

Reviewer: pongsawatp, 01-Sep-2022 09:37:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

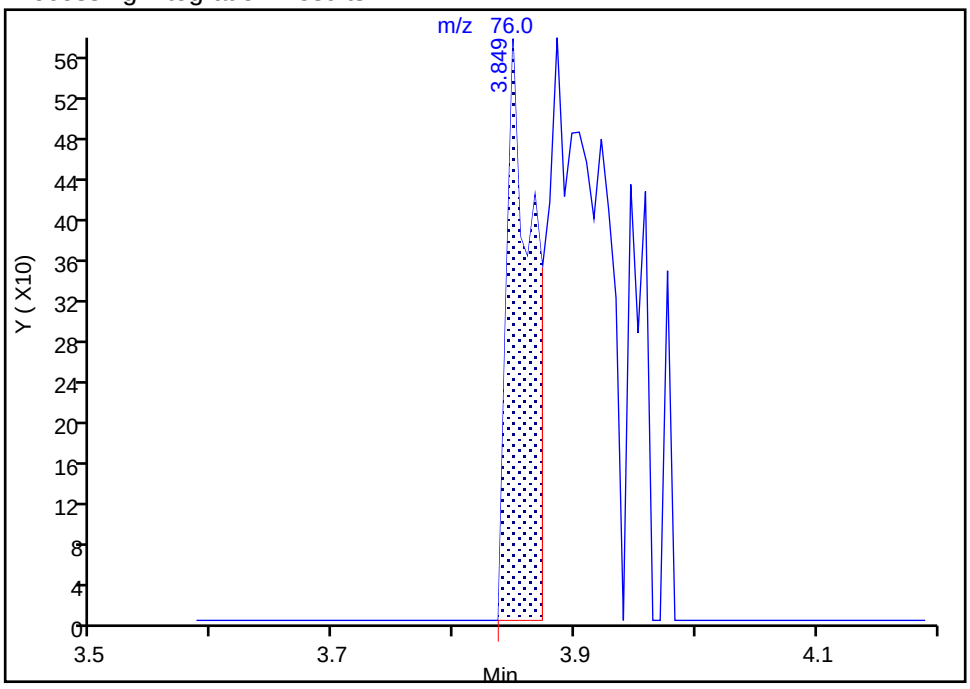
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Carbon disulfide, CAS: 75-15-0

Signal: 1

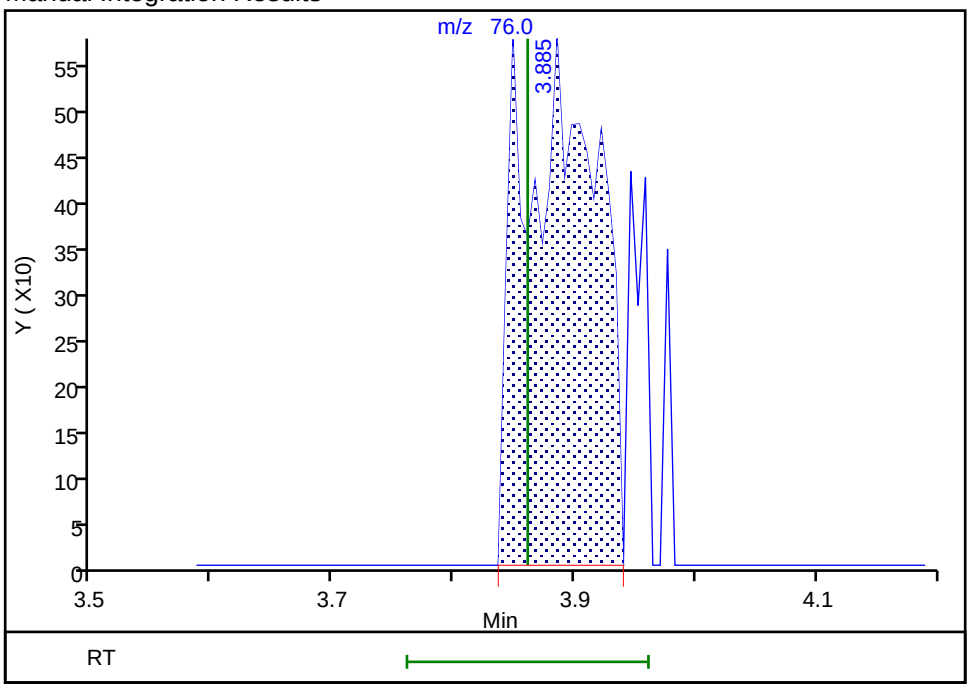
Processing Integration Results

RT: 3.85
Area: 879
Amount: 0.008463
Amount Units: ug/l



Manual Integration Results

RT: 3.89
Area: 2508
Amount: 0.024146
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:04:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

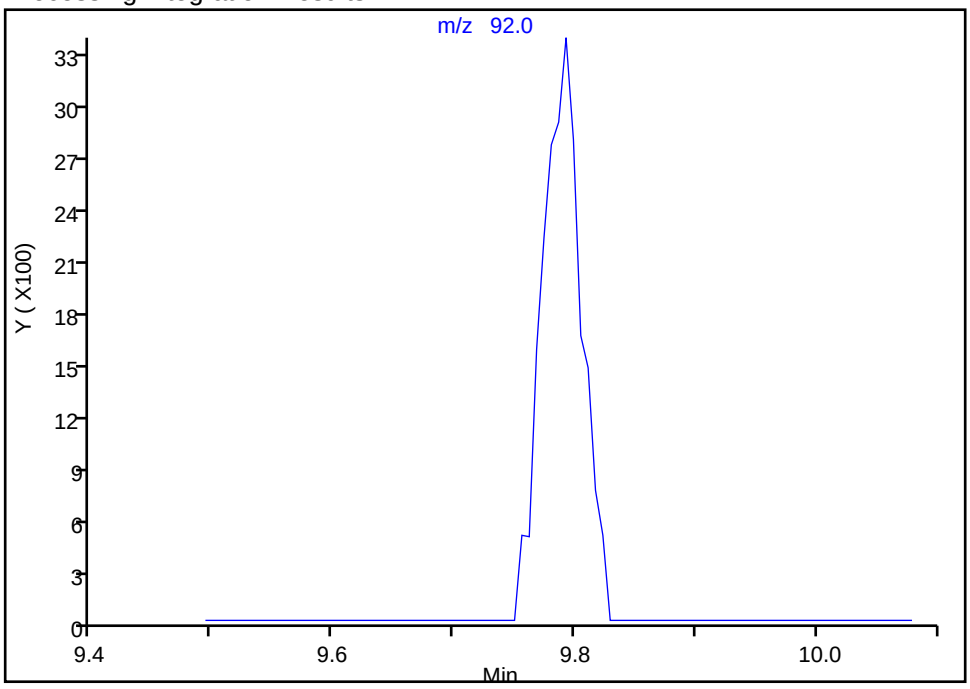
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X14.D				
Injection Date:	31-Aug-2022 14:18:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6	Lab Sample ID:	410-95715-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

79 Toluene, CAS: 108-88-3

Signal: 1

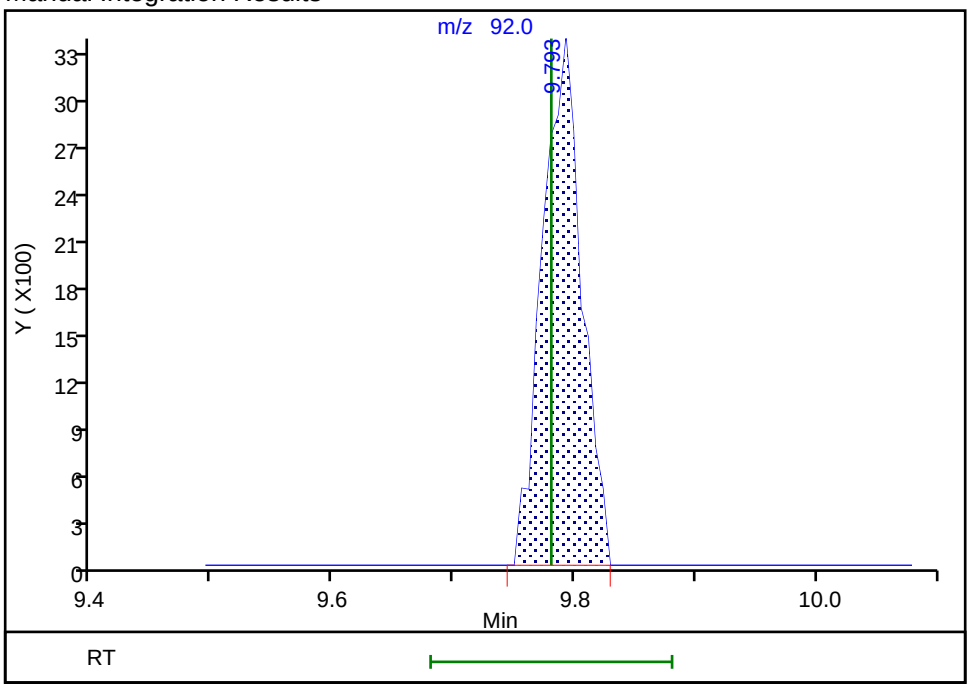
Not Detected
Expected RT: 9.78

Processing Integration Results



Manual Integration Results

RT: 9.79
Area: 7518
Amount: 0.053606
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:39:15
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-95715-7

Matrix: Water Lab File ID: IG31X17.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:00

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 15:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.6	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND	^c cn	0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND	^c cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.17	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.57		0.50	0.20
108-88-3	Toluene	0.11	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-95715-7

Matrix: Water Lab File ID: IG31X17.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:00

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 15:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.17	J	0.50	0.080
75-01-4	Vinyl chloride	ND	^c cn	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X17.D
Lims ID: 410-95715-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 15:22:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-018
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 11:13:27 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: UKAD Date: 01-Sep-2022 11:13:27

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	4 Chloromethane	50		2.136				ND	
	5 Vinyl chloride	62		2.245				ND	7
	7 Bromomethane	94		2.593				ND	
	8 Chloroethane	64		2.696				ND	
	15 1,1-Dichloroethene	96		3.556				ND	
	16 Acetone	43	3.623	3.574	0.049	67	12523	1.55	
	20 Carbon disulfide	76	3.867	3.861	0.006	94	8121	0.0726	M
	25 Methylene Chloride	84		4.221				ND	
*	26 t-Butyl alcohol-d10 (IS)	65	4.269	4.251	0.018	19	146236	50.0	
	29 Methyl tert-butyl ether	73		4.635				ND	
	30 trans-1,2-Dichloroethene	96		4.647				ND	
	32 1,1-Dichloroethane	63		5.293				ND	
	38 2-Butanone (MEK)	43		6.086				ND	7
	39 cis-1,2-Dichloroethene	96	6.141	6.123	0.018	80	9192	0.1657	
	46 Chlorobromomethane	128		6.452				ND	
	48 Chloroform	83	6.622	6.604	0.018	92	6510	0.0714	
$	49 Dibromofluoromethane (Surr)	113	6.818	6.811	0.007	93	484646	10.9	
	50 1,1,1-Trichloroethane	97	6.824	6.824	0.000	35	3506	0.0430	
	54 Carbon tetrachloride	117		7.043				ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	67	93816	10.3	
	57 Benzene	78		7.299				ND	7
	58 1,2-Dichloroethane	62		7.372				ND	
*	61 Fluorobenzene (IS)	96	7.708	7.702	0.006	99	1762994	10.0	
	64 Trichloroethene	95	8.195	8.183	0.012	95	9840	0.1732	
	66 1,2-Dichloropropane	63		8.506				ND	
	71 Dichlorobromomethane	83		8.854				ND	7
	76 cis-1,3-Dichloropropene	75		9.396				ND	
	77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	7
$	78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	1822932	9.71	
	79 Toluene	92	9.786	9.780	0.006	96	15689	0.1057	
	97 trans-1,3-Dichloropropene	75		10.036				ND	
	100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.335	10.329	0.006	96	40337	0.5694	
103 2-Hexanone	43		10.445				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1446939	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106				0		0.1054	
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106	11.402	11.384	0.018	97	7682	0.0715	
114 o-Xylene	106	11.725	11.713	0.012	90	3472	0.0339	
115 Styrene	104		11.725				ND	7
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	91	660980	9.60	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	798075	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

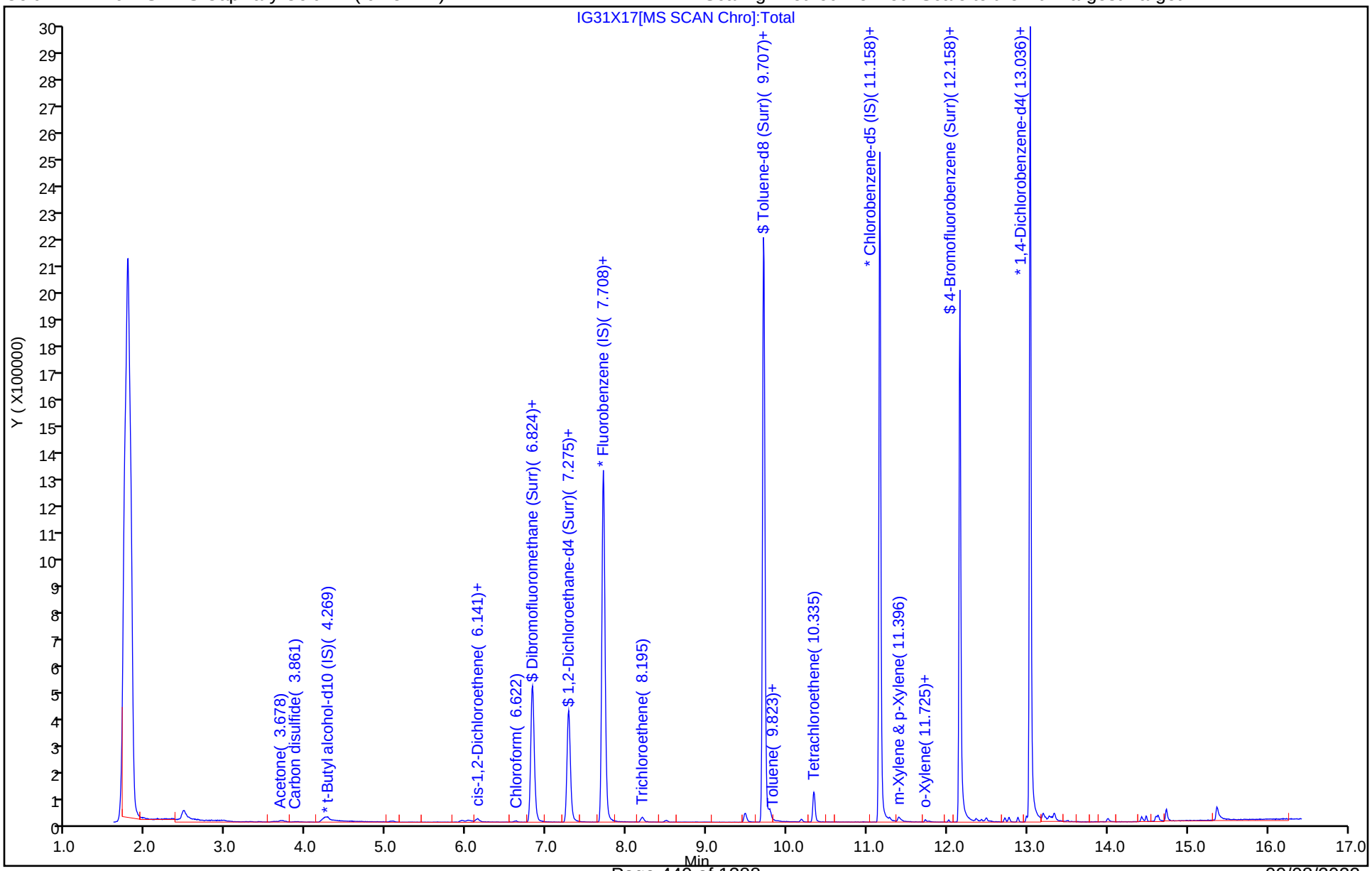
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Sep-2022 11:13:33 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X17.D				
Injection Date:	31-Aug-2022 15:22:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-7	Lab Sample ID:	410-95715-7	Worklist Smp#:	18
Client ID:	HD-COD-SW-16-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X17.D				
Lims ID:	410-95715-A-7				
Client ID:	HD-COD-SW-16-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 15:22:30	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-018				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 11:13:27	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1679				

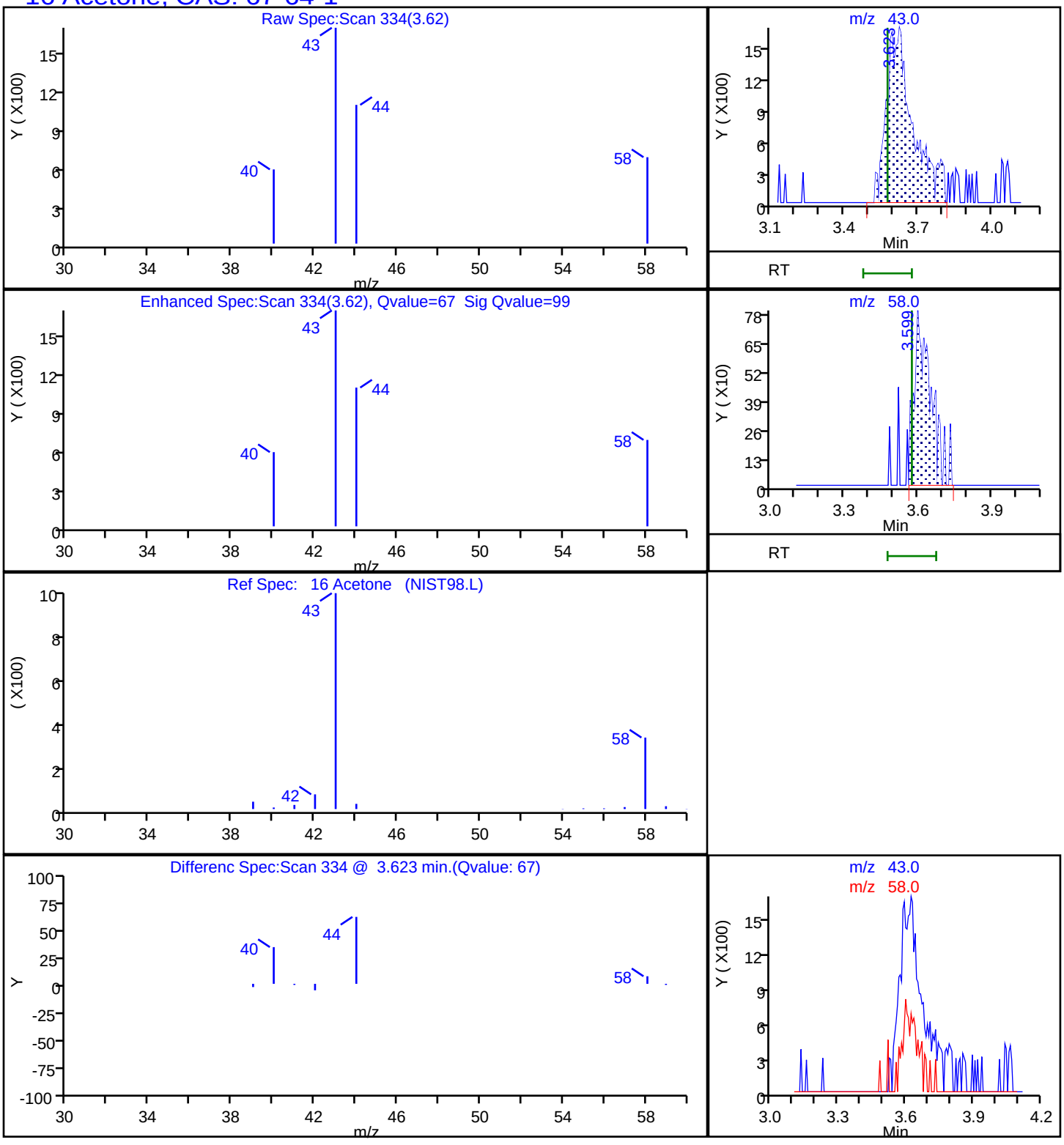
First Level Reviewer: UKAD Date: 01-Sep-2022 11:13:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	10.9	109.50
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.20
$ 78 Toluene-d8 (Surr)	10.0	9.71	97.08
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.60	96.00

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X17.D				
Injection Date:	31-Aug-2022 15:22:30	Instrument ID:	19930		
Lims ID:	410-95715-A-7	Lab Sample ID:	410-95715-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

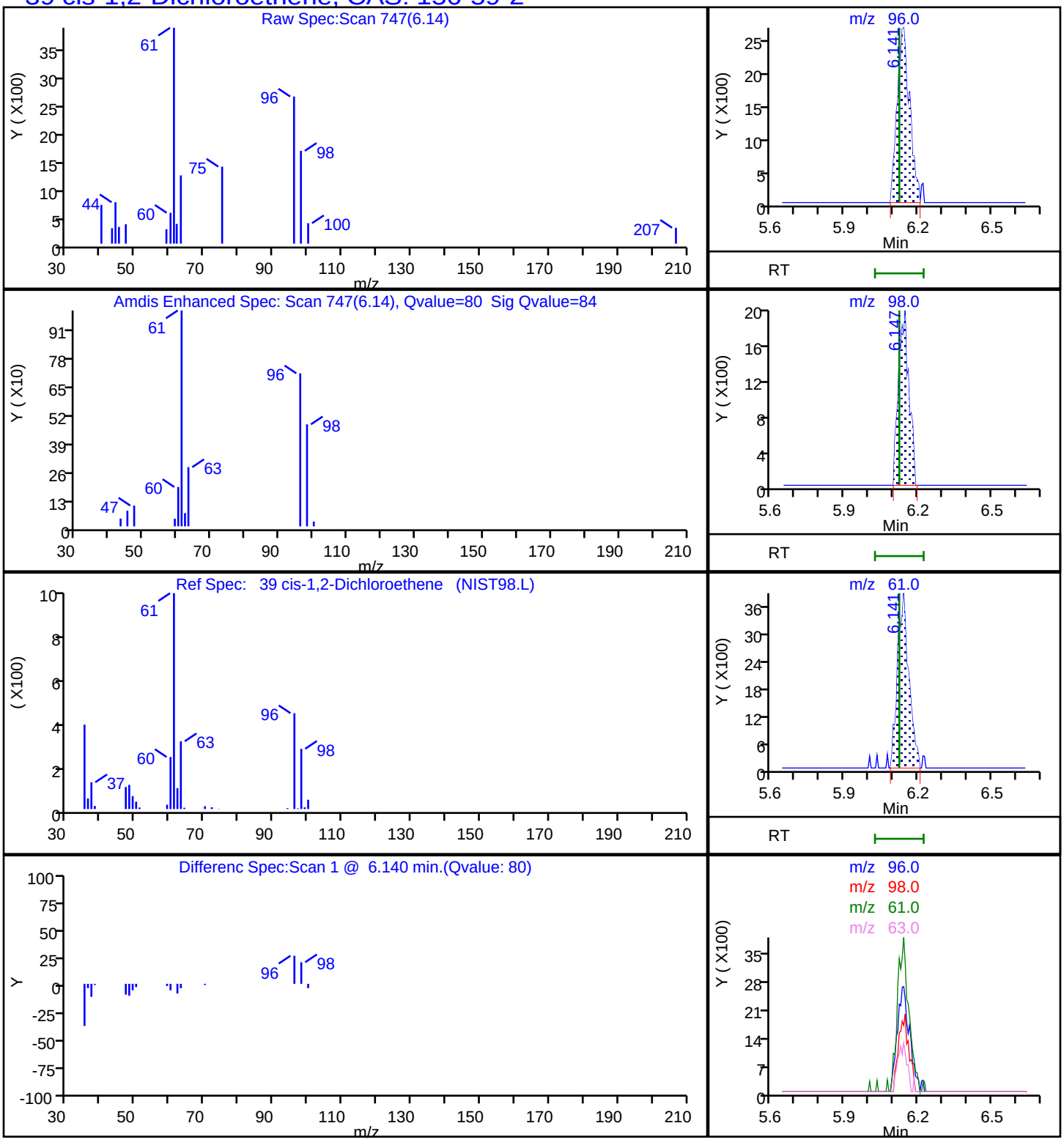
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X17.D				
Injection Date:	31-Aug-2022 15:22:30	Instrument ID:	19930		
Lims ID:	410-95715-A-7	Lab Sample ID:	410-95715-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

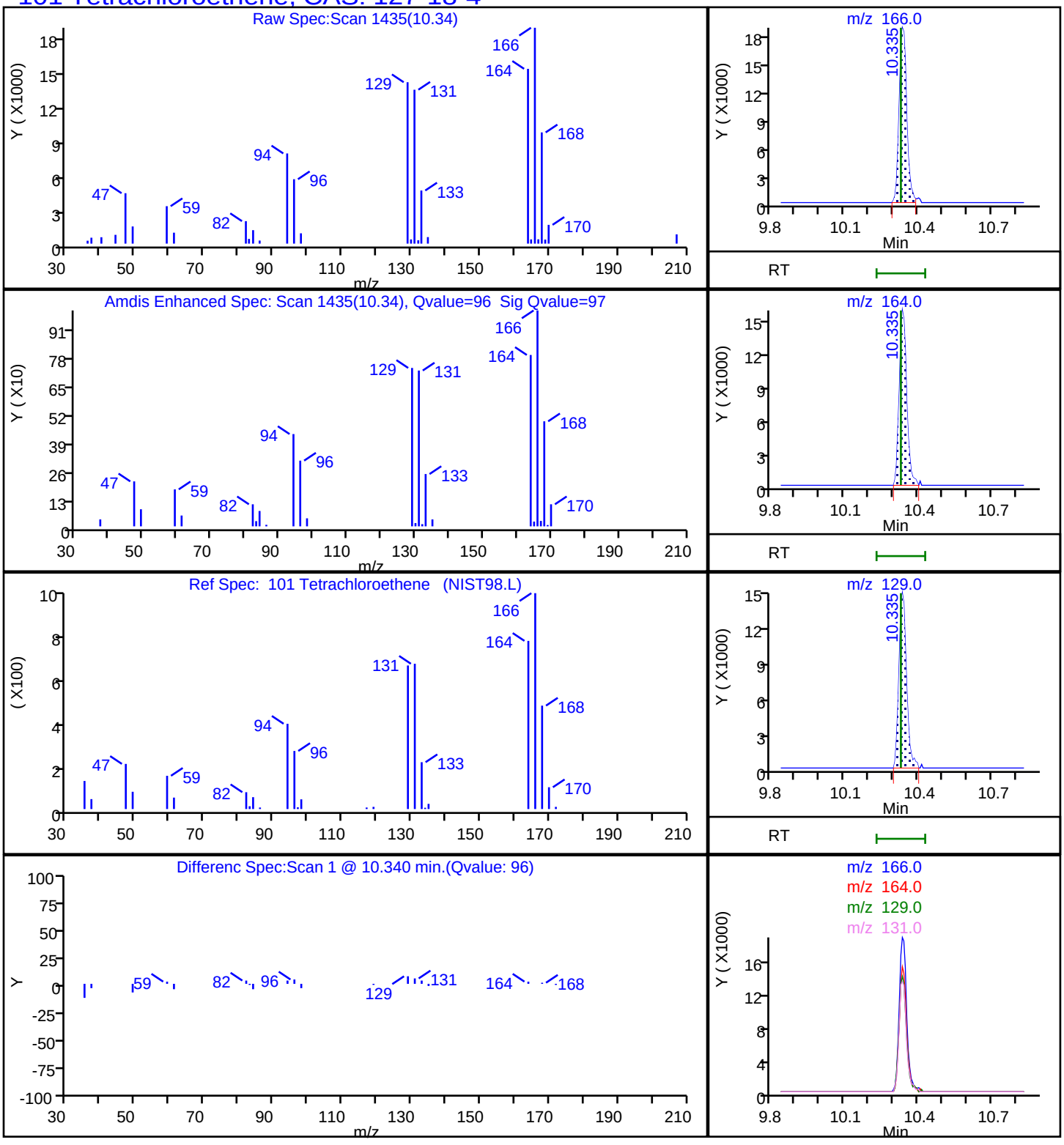
39 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X17.D				
Injection Date:	31-Aug-2022 15:22:30	Instrument ID:	19930		
Lims ID:	410-95715-A-7	Lab Sample ID:	410-95715-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

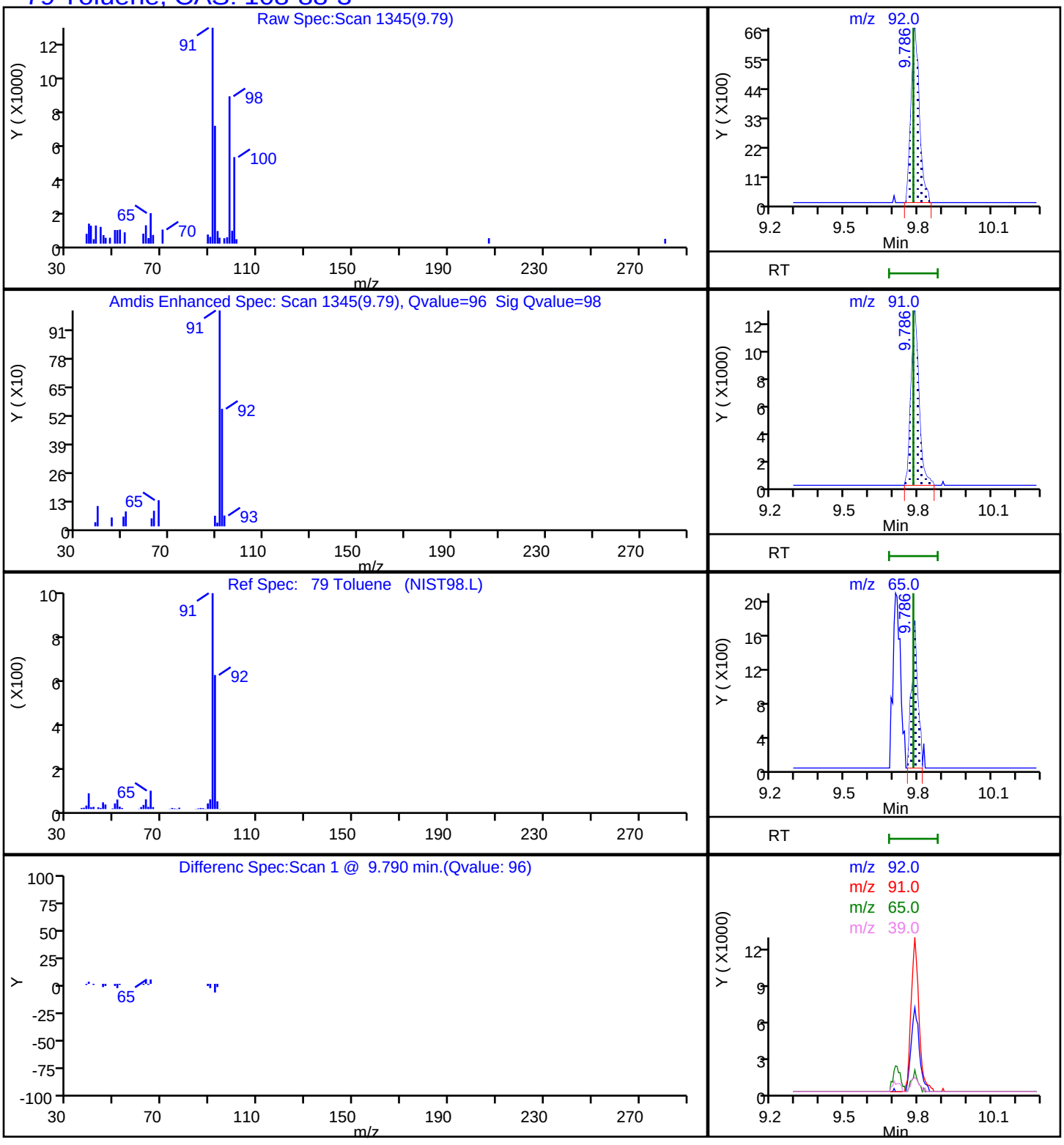
101 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X17.D				
Injection Date:	31-Aug-2022 15:22:30	Instrument ID:	19930		
Lims ID:	410-95715-A-7	Lab Sample ID:	410-95715-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

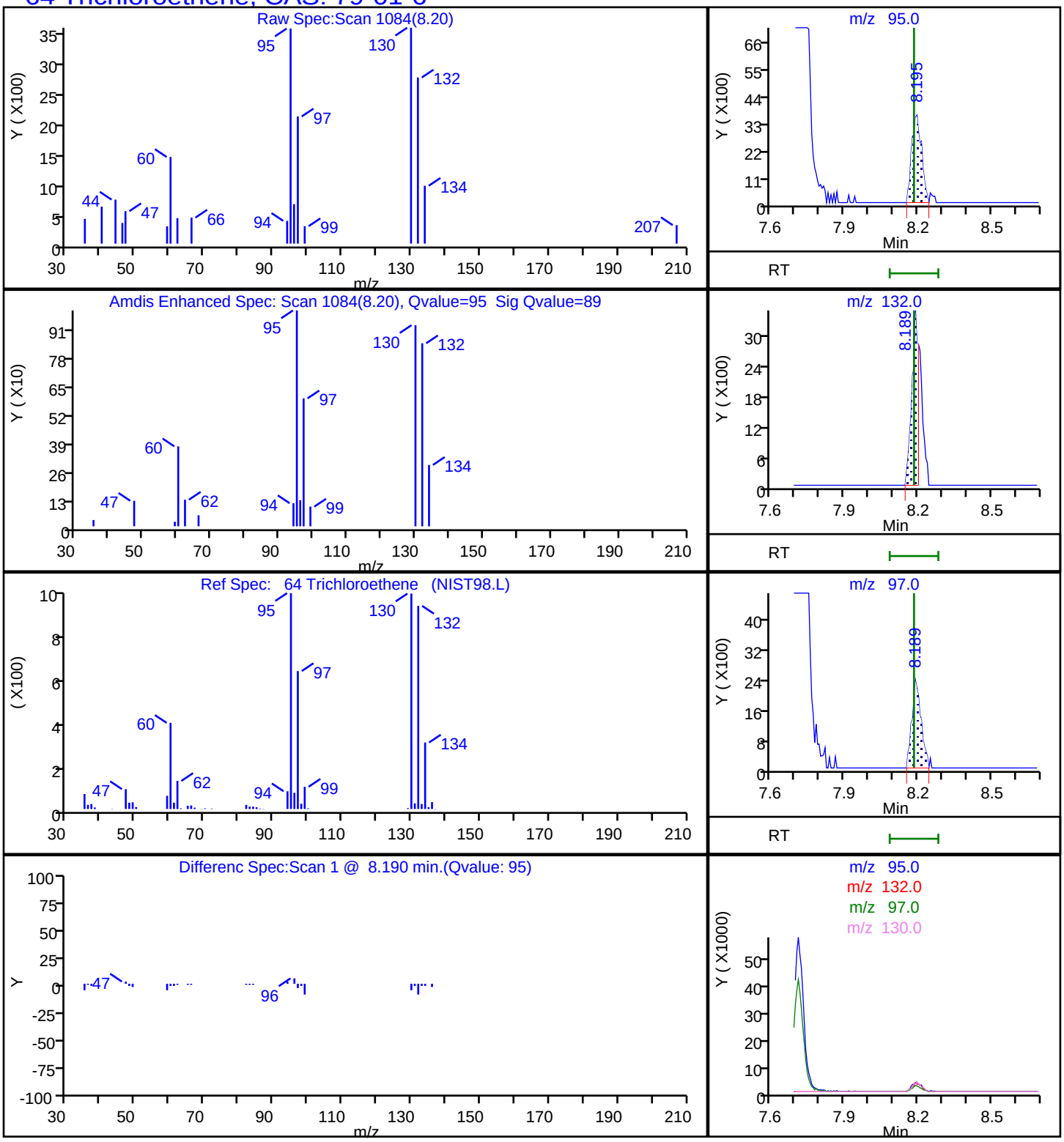
79 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X17.D				
Injection Date:	31-Aug-2022 15:22:30	Instrument ID:	19930		
Lims ID:	410-95715-A-7	Lab Sample ID:	410-95715-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

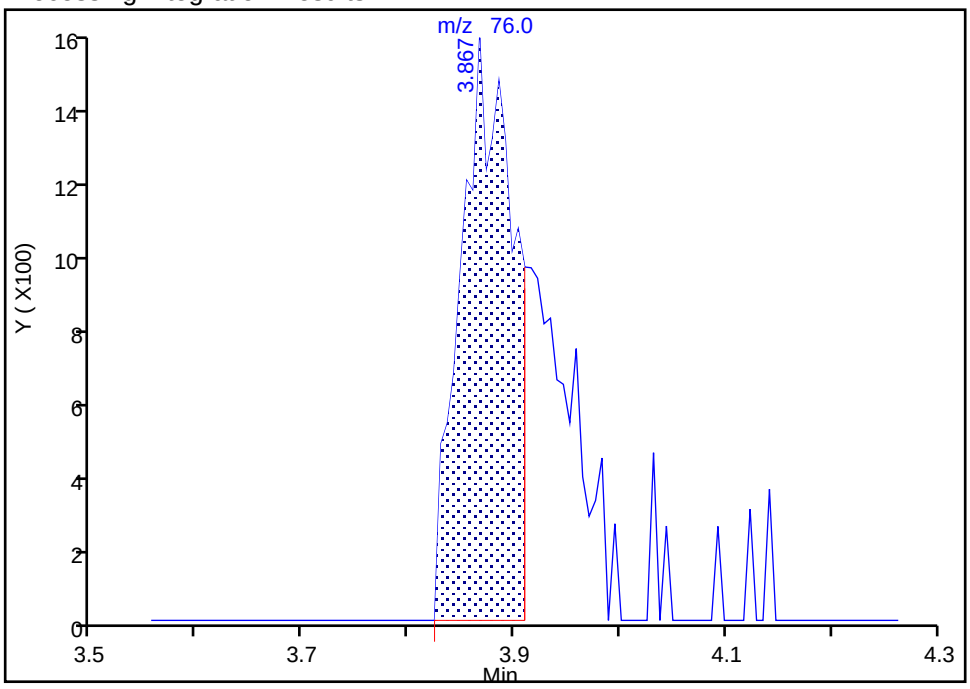
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X17.D				
Injection Date:	31-Aug-2022 15:22:30	Instrument ID:	19930		
Lims ID:	410-95715-A-7	Lab Sample ID:	410-95715-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Carbon disulfide, CAS: 75-15-0

Signal: 1

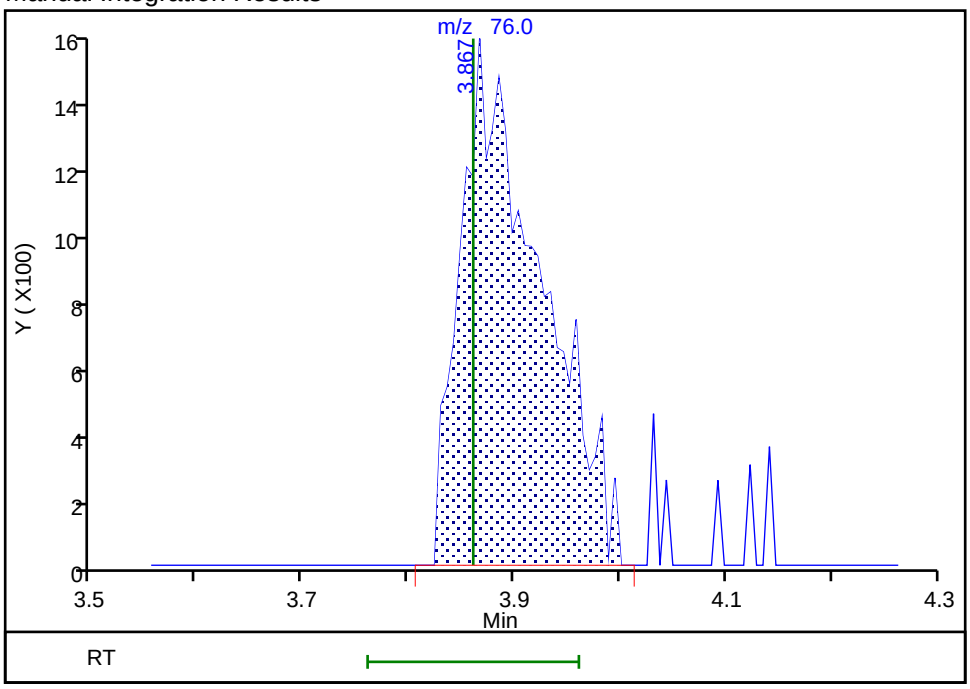
Processing Integration Results

RT: 3.87
Area: 5333
Amount: 0.047699
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 8121
Amount: 0.072635
Amount Units: ug/l



Reviewer: UKAD, 01-Sep-2022 11:12:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-95715-8

Matrix: Water Lab File ID: IG31X18.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:10

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 15:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.2		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.4		0.50	0.10
75-35-4	1,1-Dichloroethene	0.44	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND	^c cn	0.50	0.10
67-66-3	Chloroform	0.36	J	0.50	0.090
74-87-3	Chloromethane	ND	^c cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.3		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-95715-8

Matrix: Water Lab File ID: IG31X18.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:10

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 15:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	6.1		0.50	0.080
75-01-4	Vinyl chloride	ND	^c cn	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D
Lims ID: 410-95715-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 15:43:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-019
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 09:47:32 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:47:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.136				ND	7
5 Vinyl chloride	62	2.251	2.245	0.006	1	5002	0.0846	
7 Bromomethane	94		2.593				ND	
8 Chloroethane	64		2.696				ND	
15 1,1-Dichloroethene	96	3.574	3.556	0.018	94	19071	0.4382	
16 Acetone	43		3.574				ND	U
20 Carbon disulfide	76		3.861				ND	7
25 Methylene Chloride	84		4.221				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.251	4.251	0.000	25	145459	50.0	
29 Methyl tert-butyl ether	73	4.635	4.635	0.000	1	3491	0.0319	
30 trans-1,2-Dichloroethene	96		4.647				ND	
32 1,1-Dichloroethane	63	5.312	5.293	0.019	96	126937	1.43	
38 2-Butanone (MEK)	43		6.086				ND	7
39 cis-1,2-Dichloroethene	96	6.135	6.123	0.012	81	231288	4.28	
46 Chlorobromomethane	128		6.452				ND	
48 Chloroform	83	6.616	6.604	0.012	94	31916	0.3596	
$ 49 Dibromofluoromethane (Surr)	113	6.823	6.811	0.012	94	477801	11.1	
50 1,1,1-Trichloroethane	97	6.836	6.824	0.012	98	496366	6.25	
54 Carbon tetrachloride	117		7.043				ND	7
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	56	93239	10.5	
57 Benzene	78		7.299				ND	7
58 1,2-Dichloroethane	62		7.372				ND	
* 61 Fluorobenzene (IS)	96	7.707	7.702	0.005	99	1716777	10.0	
64 Trichloroethene	95	8.189	8.183	0.006	98	338668	6.12	
66 1,2-Dichloropropane	63		8.506				ND	
71 Dichlorobromomethane	83		8.854				ND	
76 cis-1,3-Dichloropropene	75		9.396				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	1749956	9.32	
79 Toluene	92	9.786	9.780	0.006	98	6992	0.0471	
97 trans-1,3-Dichloropropene	75		10.036				ND	
100 1,1,2-Trichloroethane	97	10.244	10.238	0.006	50	1070	0.0256	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.335	10.329	0.006	97	6874459	97.1	E
103 2-Hexanone	43		10.445				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1446293	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	91	627991	9.13	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	764583	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

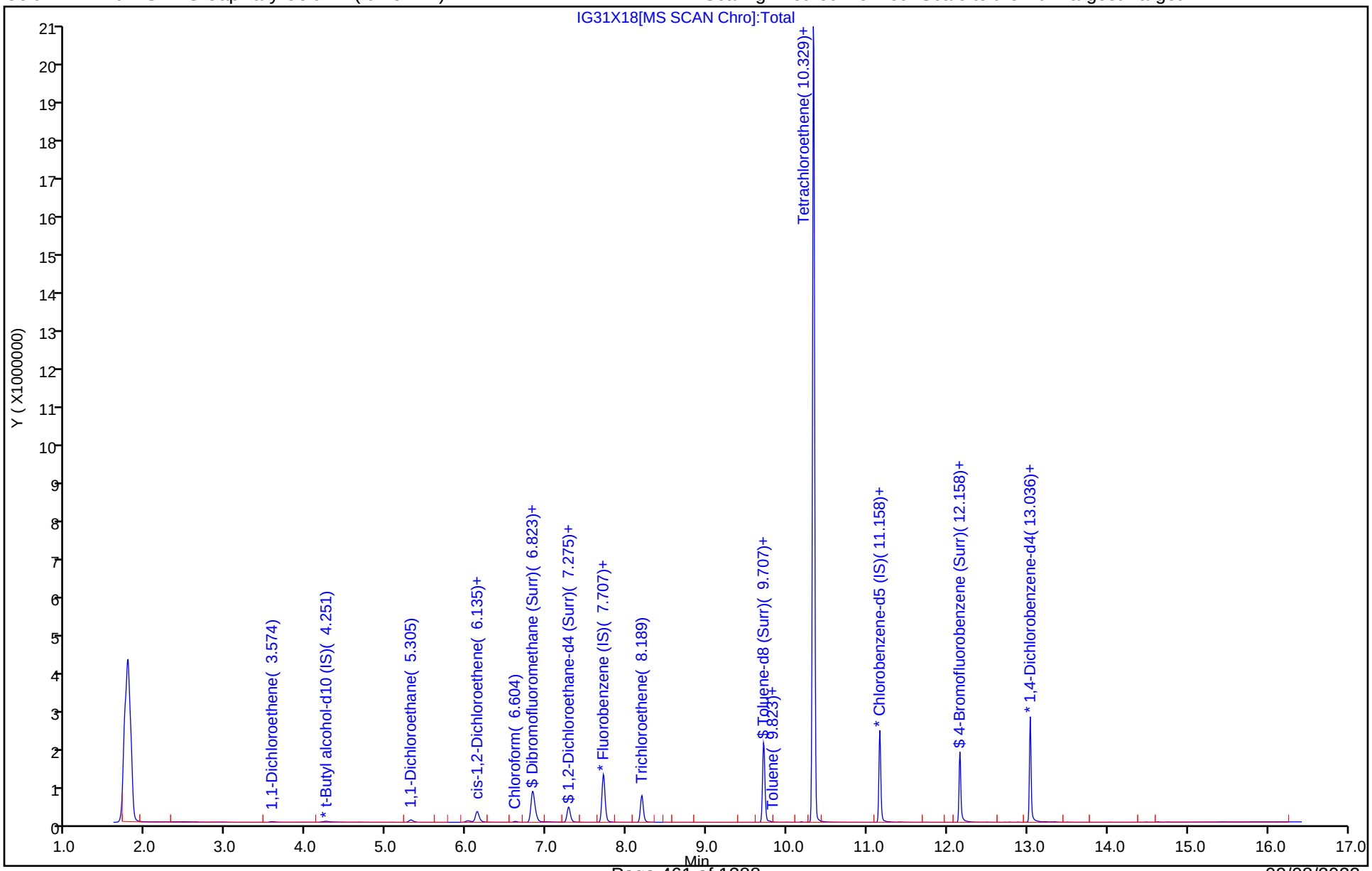
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Sep-2022 09:47:32 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D				
Injection Date:	31-Aug-2022 15:43:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-8	Lab Sample ID:	410-95715-8	Worklist Smp#:	19
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D				
Lims ID:	410-95715-A-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 15:43:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-019				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 09:47:32	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:47:32

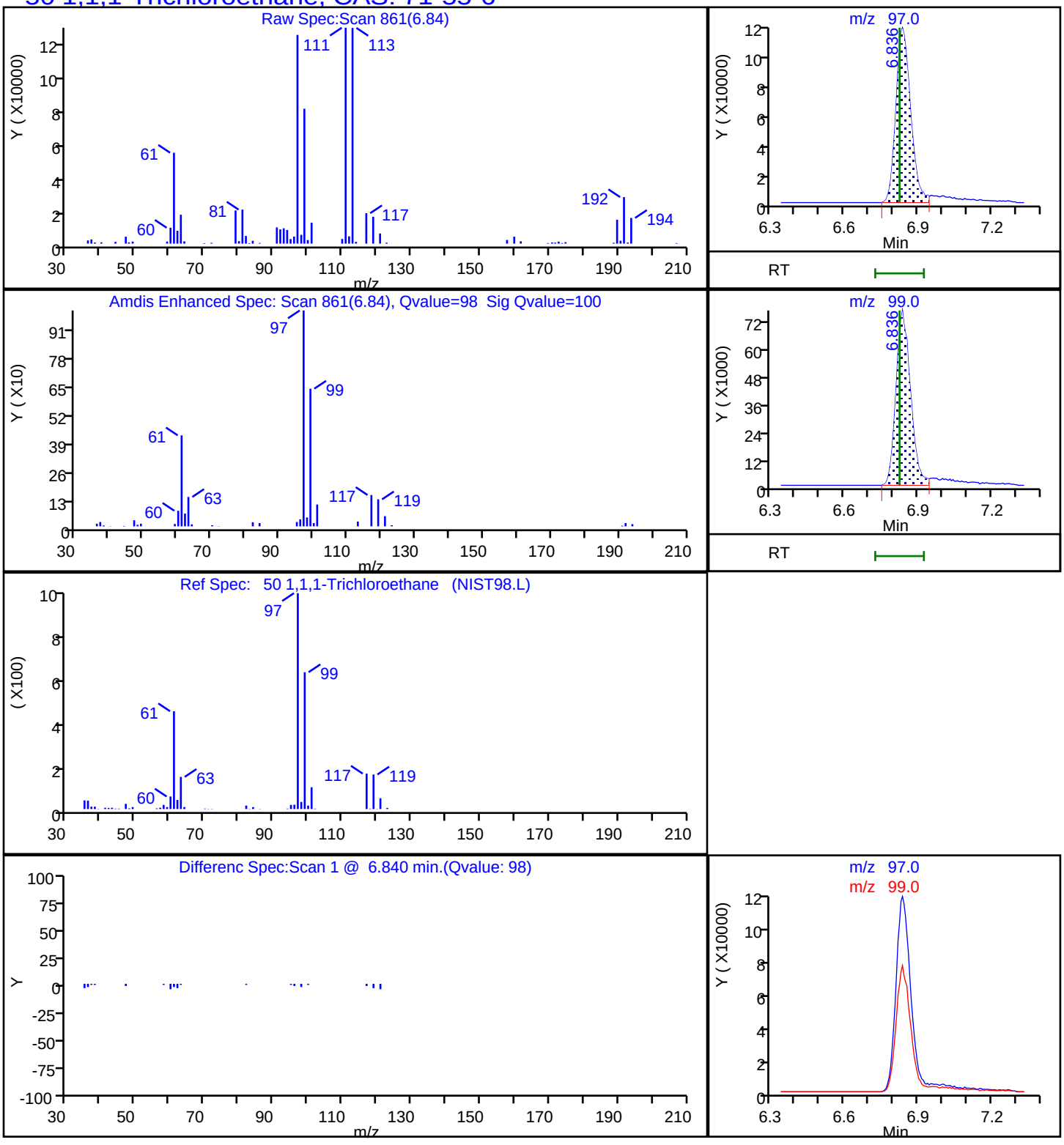
Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.1	110.86
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.32
$ 78 Toluene-d8 (Surr)	10.0	9.32	93.24
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.13	91.25

Report Date: 01-Sep-2022 09:47:32 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D				
Injection Date:	31-Aug-2022 15:43:30	Instrument ID:	19930		
Lims ID:	410-95715-A-8	Lab Sample ID:	410-95715-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

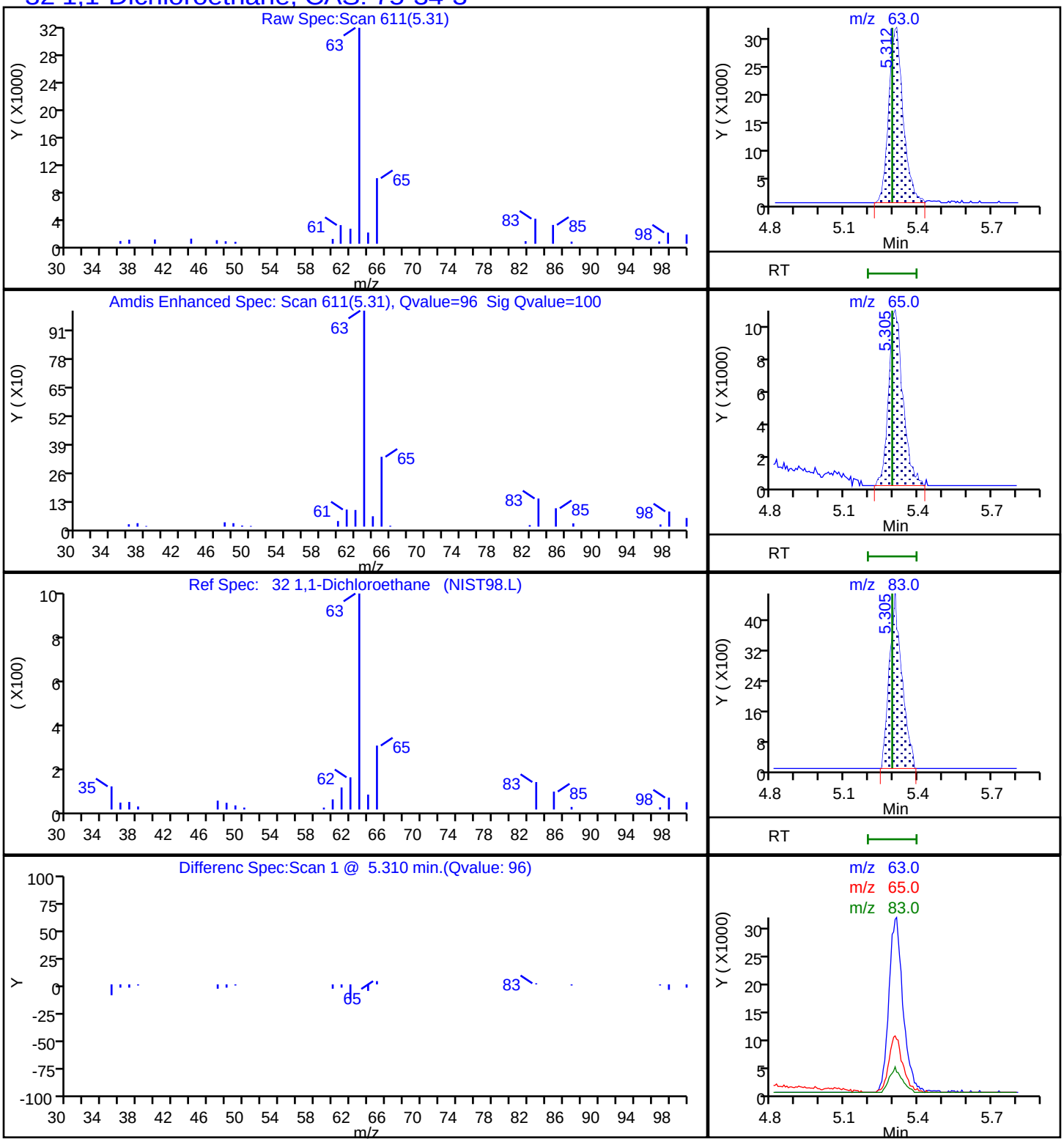
50 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D				
Injection Date:	31-Aug-2022 15:43:30	Instrument ID:	19930		
Lims ID:	410-95715-A-8	Lab Sample ID:	410-95715-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

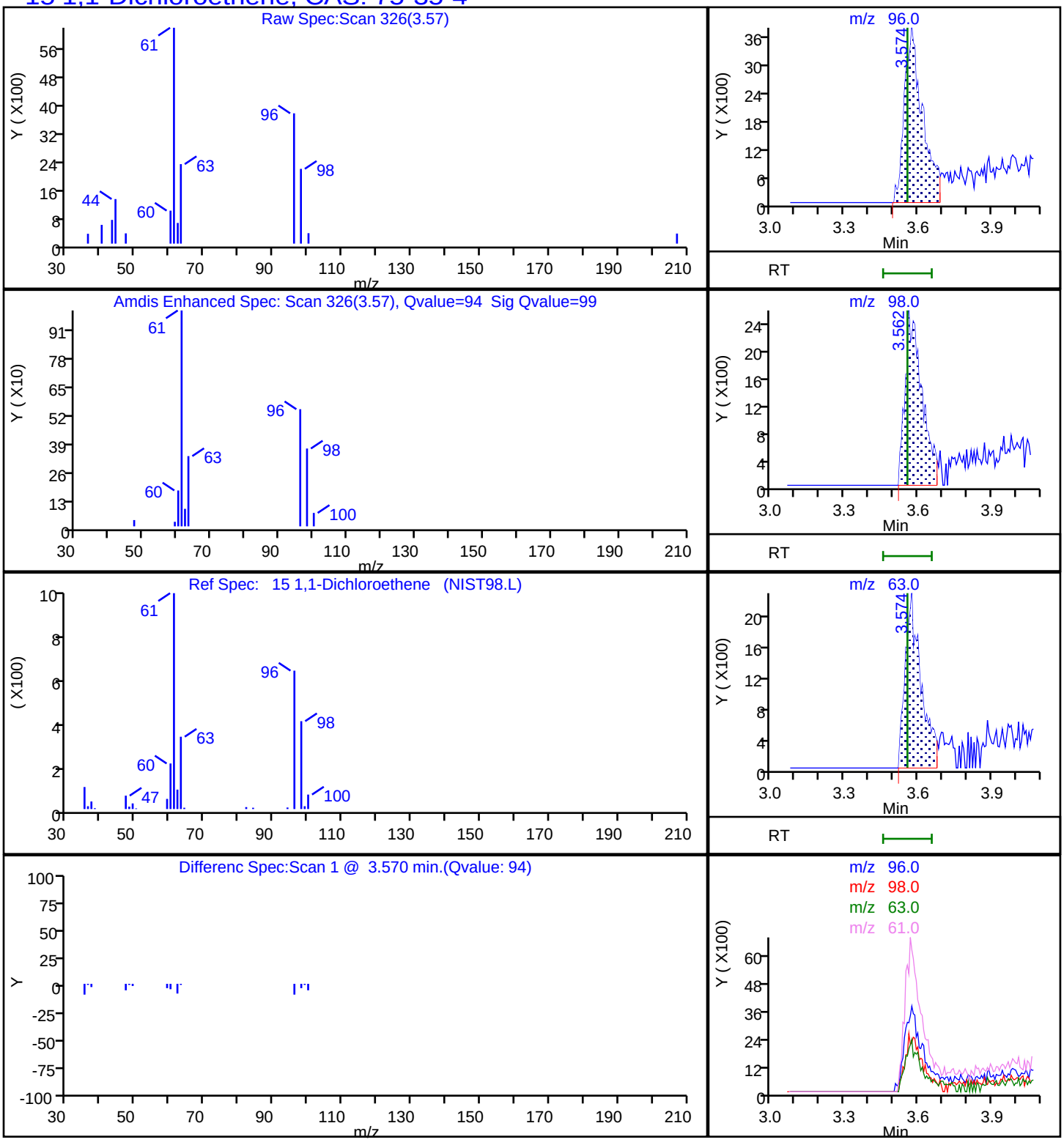
32 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D				
Injection Date:	31-Aug-2022 15:43:30	Instrument ID:	19930		
Lims ID:	410-95715-A-8	Lab Sample ID:	410-95715-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

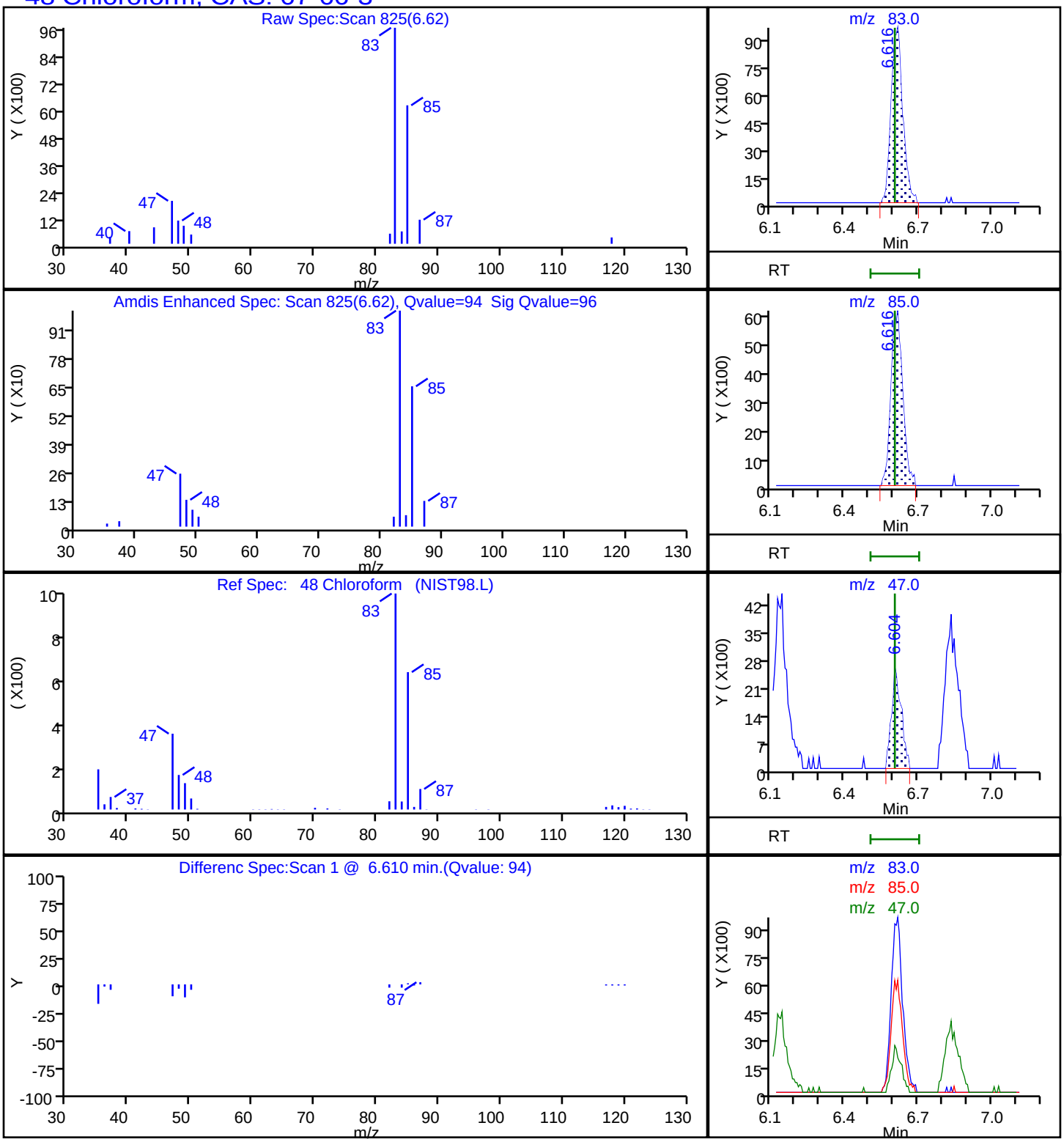
15 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D				
Injection Date:	31-Aug-2022 15:43:30	Instrument ID:	19930		
Lims ID:	410-95715-A-8	Lab Sample ID:	410-95715-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

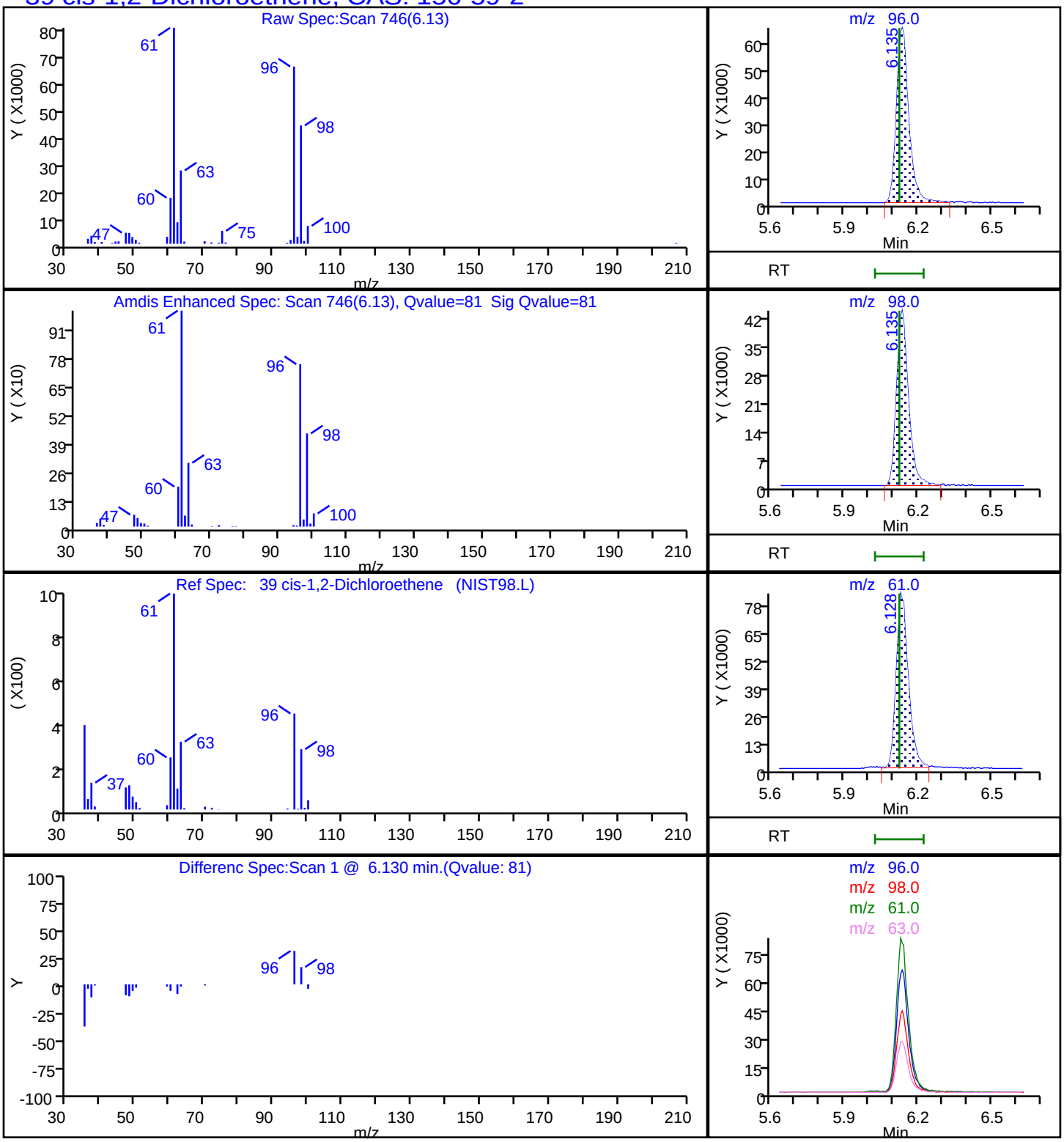
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D				
Injection Date:	31-Aug-2022 15:43:30	Instrument ID:	19930		
Lims ID:	410-95715-A-8	Lab Sample ID:	410-95715-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

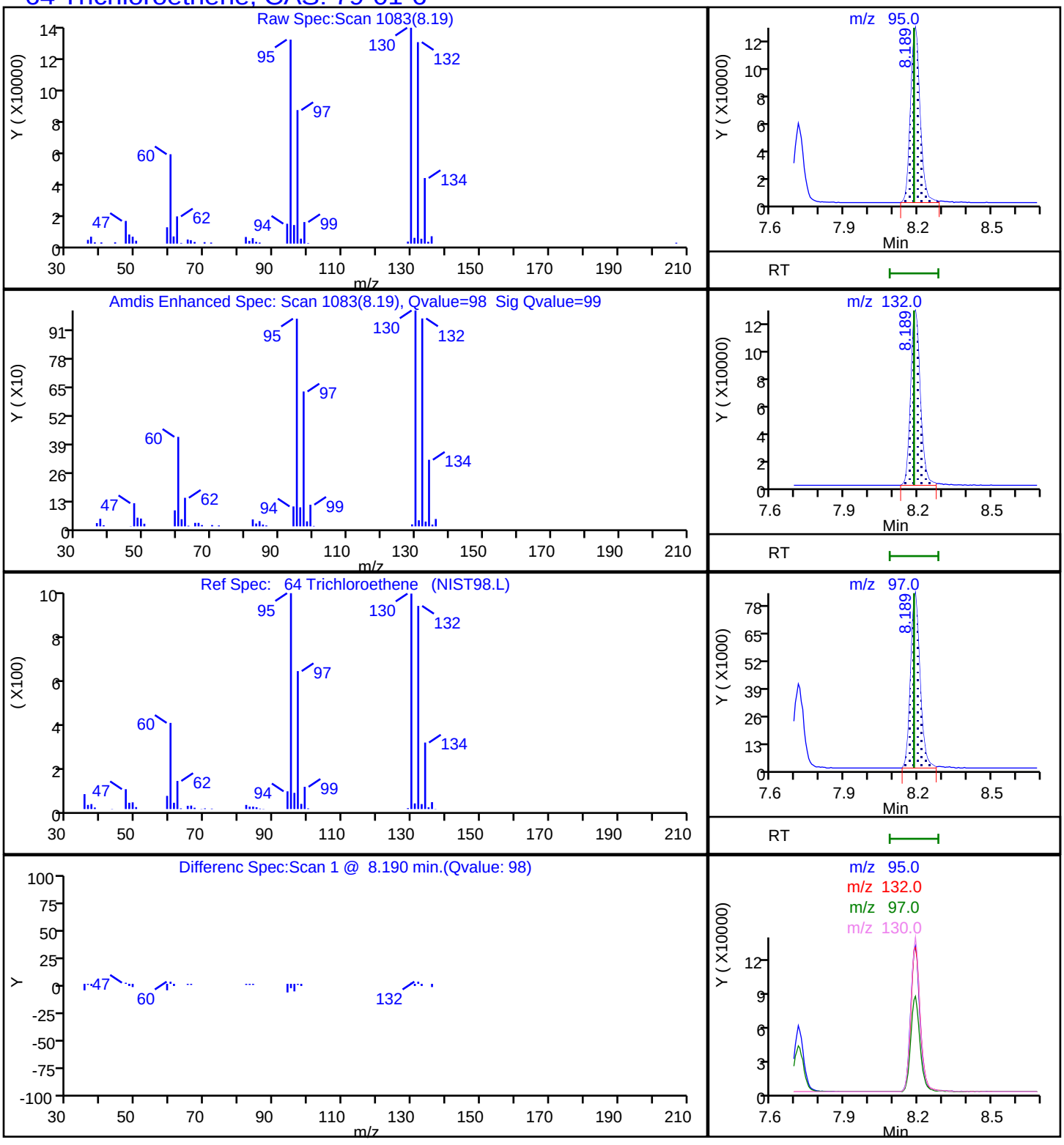
39 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D				
Injection Date:	31-Aug-2022 15:43:30	Instrument ID:	19930		
Lims ID:	410-95715-A-8	Lab Sample ID:	410-95715-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



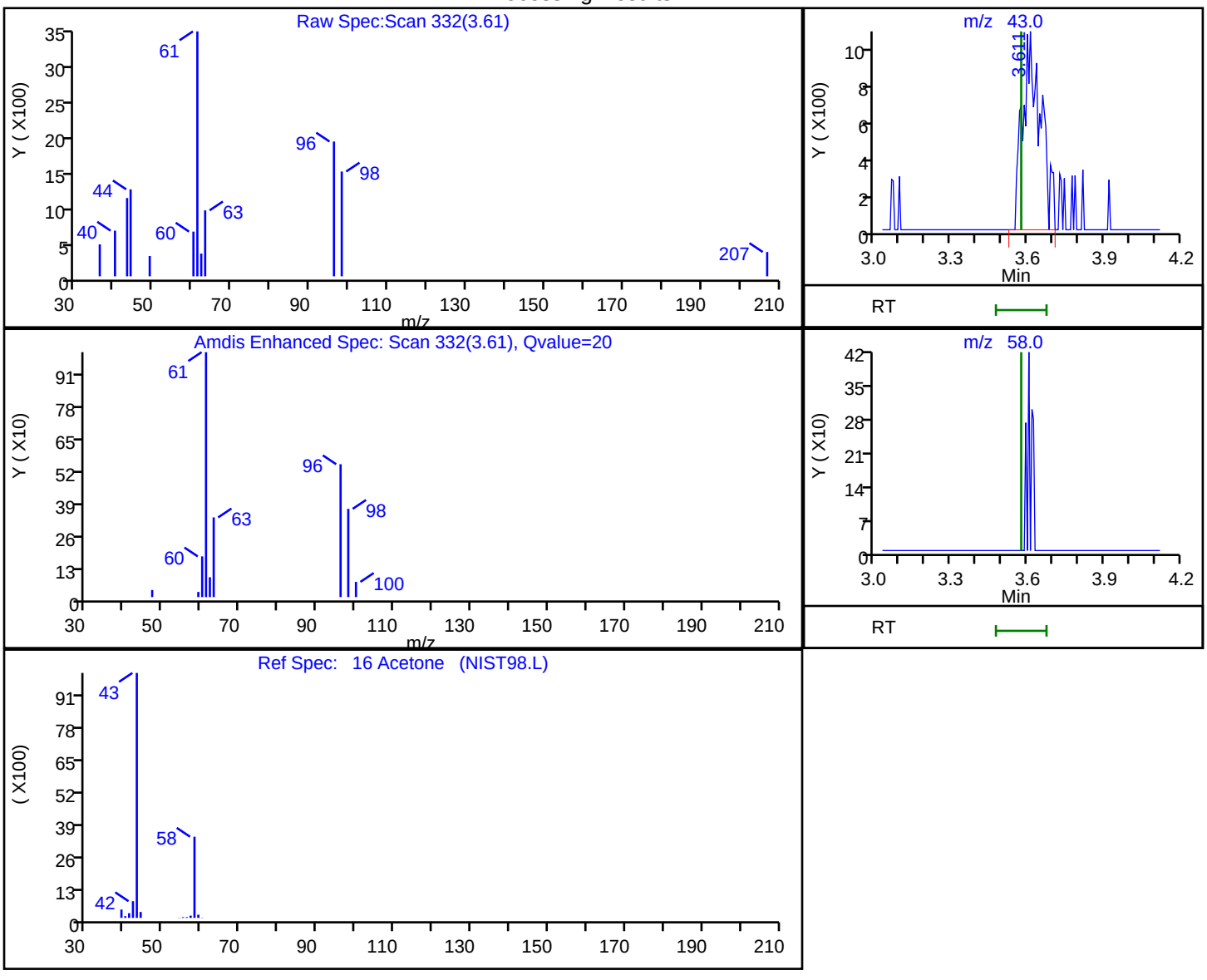
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X18.D				
Injection Date:	31-Aug-2022 15:43:30	Instrument ID:	19930		
Lims ID:	410-95715-A-8	Lab Sample ID:	410-95715-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.61	43.00	5437	0.677489
3.57	58.00	0	

Reviewer: pongsawatp, 01-Sep-2022 09:46:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 DL Lab Sample ID: 410-95715-8 DL

Matrix: Water Lab File ID: GS05X24.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:10

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 18:43

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292755 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	78		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X24.D
Lims ID: 410-95715-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 05-Sep-2022 18:43:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0065640-025
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Sep-2022 14:05:55 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: DVW2 Date: 06-Sep-2022 14:05:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.093				ND	
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.526				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96	3.428	3.422	0.006	90	2211	0.0472	
20 Acetone	43	3.483	3.471	0.012	20	2975	0.4736	
23 Carbon disulfide	76		3.708				ND	
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.111	4.123	-0.012	57	123898	50.0	
33 Methyl tert-butyl ether	73		4.452				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63	5.135	5.129	0.006	93	10273	0.1156	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.970	5.964	0.006	76	21816	0.3649	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.452	6.452	0.000	76	2717	0.0285	a
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.665	0.006	94	542566	10.0	
53 1,1,1-Trichloroethane	97	6.677	6.677	0.000	70	51888	0.6244	
56 Carbon tetrachloride	117		6.885				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.116	0.006	45	116576	10.2	
60 Benzene	78		7.153				ND	
61 1,2-Dichloroethane	62		7.220				ND	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2174570	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	95	29403	0.4837	
70 1,2-Dichloropropane	63		8.372				ND	
76 Dichlorobromomethane	83		8.720				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	2199054	9.89	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.146				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.231	10.231	0.000	97	592196	7.81	
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1736289	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.182				ND	
116 Ethylbenzene	91		11.189				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.304				ND	7
120 o-Xylene	106		11.634				ND	
121 Styrene	104		11.652				ND	
122 Bromoform	173		11.804				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	95	811279	9.80	
127 1,1,2,2-Tetrachloroethane	83		12.182				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1033766	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_29_826ISS_00036 Amount Added: 1.00 Units: uL Run Reagent

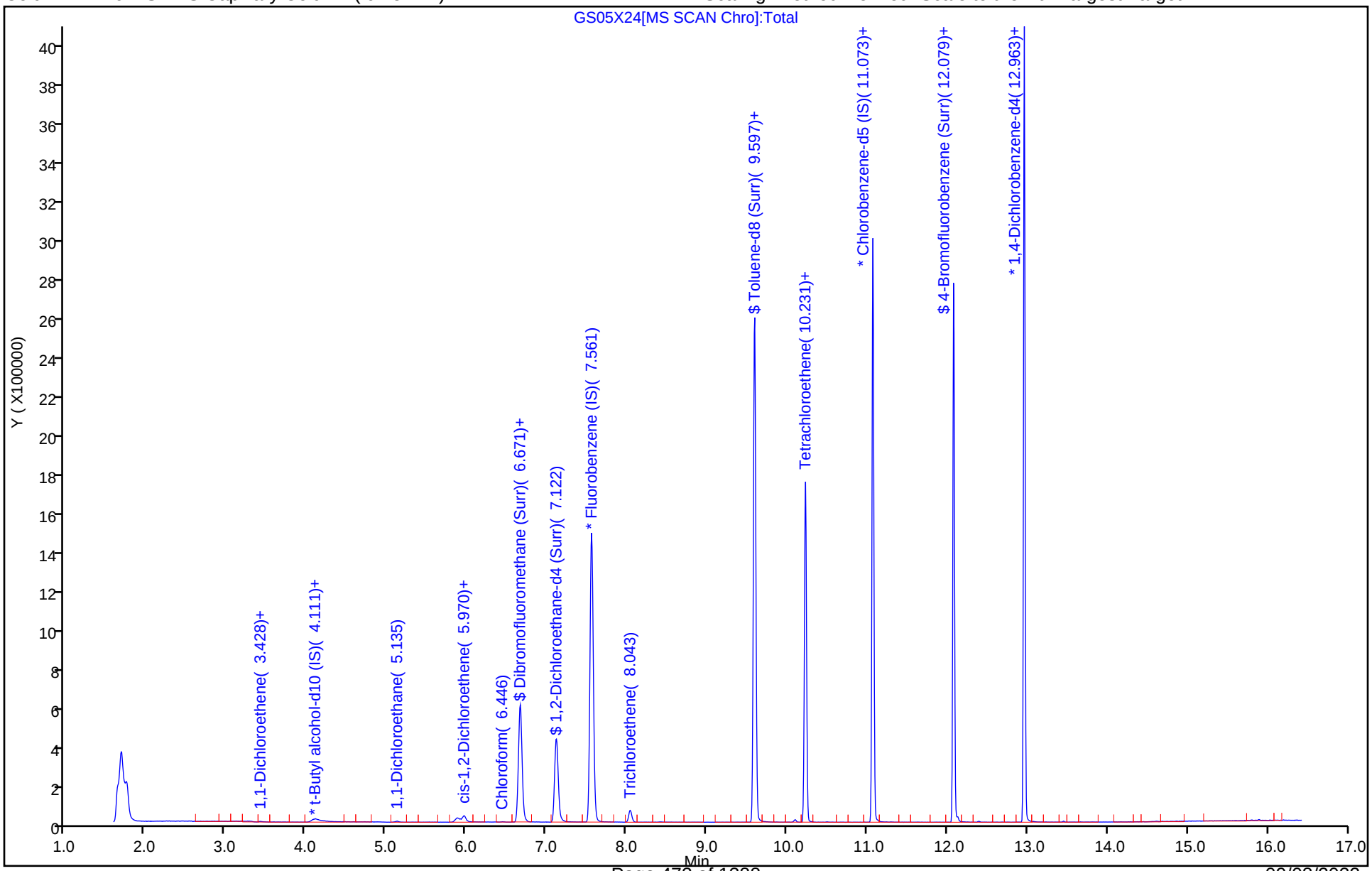
Report Date: 06-Sep-2022 14:06:51 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X24.D

Injection Date:	05-Sep-2022 18:43:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-95715-B-8 DL	Lab Sample ID:	410-95715-8	Worklist Smp#:	25
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	24
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X24.D				
Lims ID:	410-95715-B-8 DL				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Sep-2022 18:43:30	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Sample Info:	410-0065640-025				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Sep-2022 14:05:55	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1644				

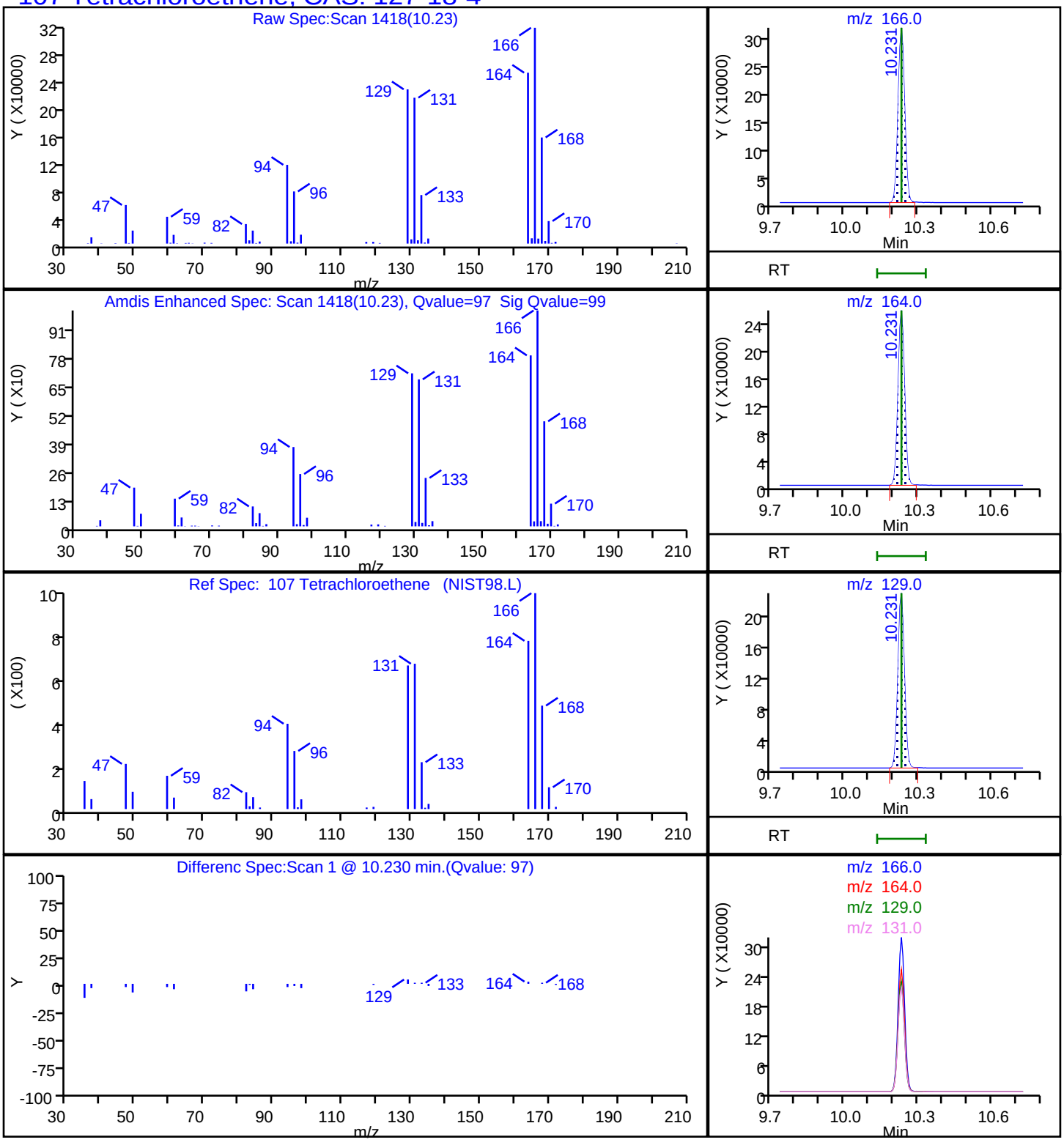
First Level Reviewer: DVW2 Date: 06-Sep-2022 14:05:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.50
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.67
$ 83 Toluene-d8 (Surr)	10.0	9.89	98.90
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.80	98.02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X24.D				
Injection Date:	05-Sep-2022 18:43:30	Instrument ID:	16334		
Lims ID:	410-95715-B-8 DL	Lab Sample ID:	410-95715-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-95715-9

Matrix: Water Lab File ID: IG31X19.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:05

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 16:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	0.10	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND	^c cn	0.50	0.10
67-66-3	Chloroform	0.73		0.50	0.090
74-87-3	Chloromethane	ND	^c cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	3.8		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-95715-9

Matrix: Water Lab File ID: IG31X19.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:05

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 16:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.18	J	0.50	0.080
75-01-4	Vinyl chloride	ND	^c cn	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D
Lims ID: 410-95715-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 16:04:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-020
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 14:35:25 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:49:33

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	4 Chloromethane	50		2.136				ND	
	5 Vinyl chloride	62		2.245				ND	
	7 Bromomethane	94		2.593				ND	
	8 Chloroethane	64		2.696				ND	
	15 1,1-Dichloroethene	96	3.574	3.556	0.018	85	4445	0.1036	
	16 Acetone	43	3.611	3.574	0.037	43	4106	0.4872	
	20 Carbon disulfide	76		3.861				ND	7
	25 Methylene Chloride	84		4.221				ND	
*	26 t-Butyl alcohol-d10 (IS)	65	4.245	4.251	-0.006	19	152748	50.0	M
	29 Methyl tert-butyl ether	73		4.635				ND	
	30 trans-1,2-Dichloroethene	96		4.647				ND	
	32 1,1-Dichloroethane	63		5.293				ND	
	38 2-Butanone (MEK)	43		6.086				ND	7
	39 cis-1,2-Dichloroethene	96	6.147	6.123	0.024	76	3382	0.0635	a
	46 Chlorobromomethane	128		6.452				ND	
	48 Chloroform	83	6.616	6.604	0.012	93	63667	0.7278	
$	49 Dibromofluoromethane (Surr)	113	6.824	6.811	0.013	94	470878	11.1	
	50 1,1,1-Trichloroethane	97		6.824				ND	U
	54 Carbon tetrachloride	117		7.043				ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	56	92481	10.6	
	57 Benzene	78	7.311	7.299	0.012	39	1827	0.008917	7a
	58 1,2-Dichloroethane	62		7.372				ND	
*	61 Fluorobenzene (IS)	96	7.708	7.702	0.006	99	1692072	10.0	
	64 Trichloroethene	95	8.195	8.183	0.012	97	9797	0.1797	
	66 1,2-Dichloropropane	63		8.506				ND	
	71 Dichlorobromomethane	83	8.866	8.854	0.012	90	1659	0.0264	
	76 cis-1,3-Dichloropropene	75		9.396				ND	
	77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	
$	78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	1725408	9.50	
	79 Toluene	92	9.786	9.780	0.006	96	8791	0.0612	
	97 trans-1,3-Dichloropropene	75		10.036				ND	
	100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.335	10.329	0.006	97	263077	3.84	
103 2-Hexanone	43		10.445				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1399976	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	91	623422	9.36	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	735853	10.0	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

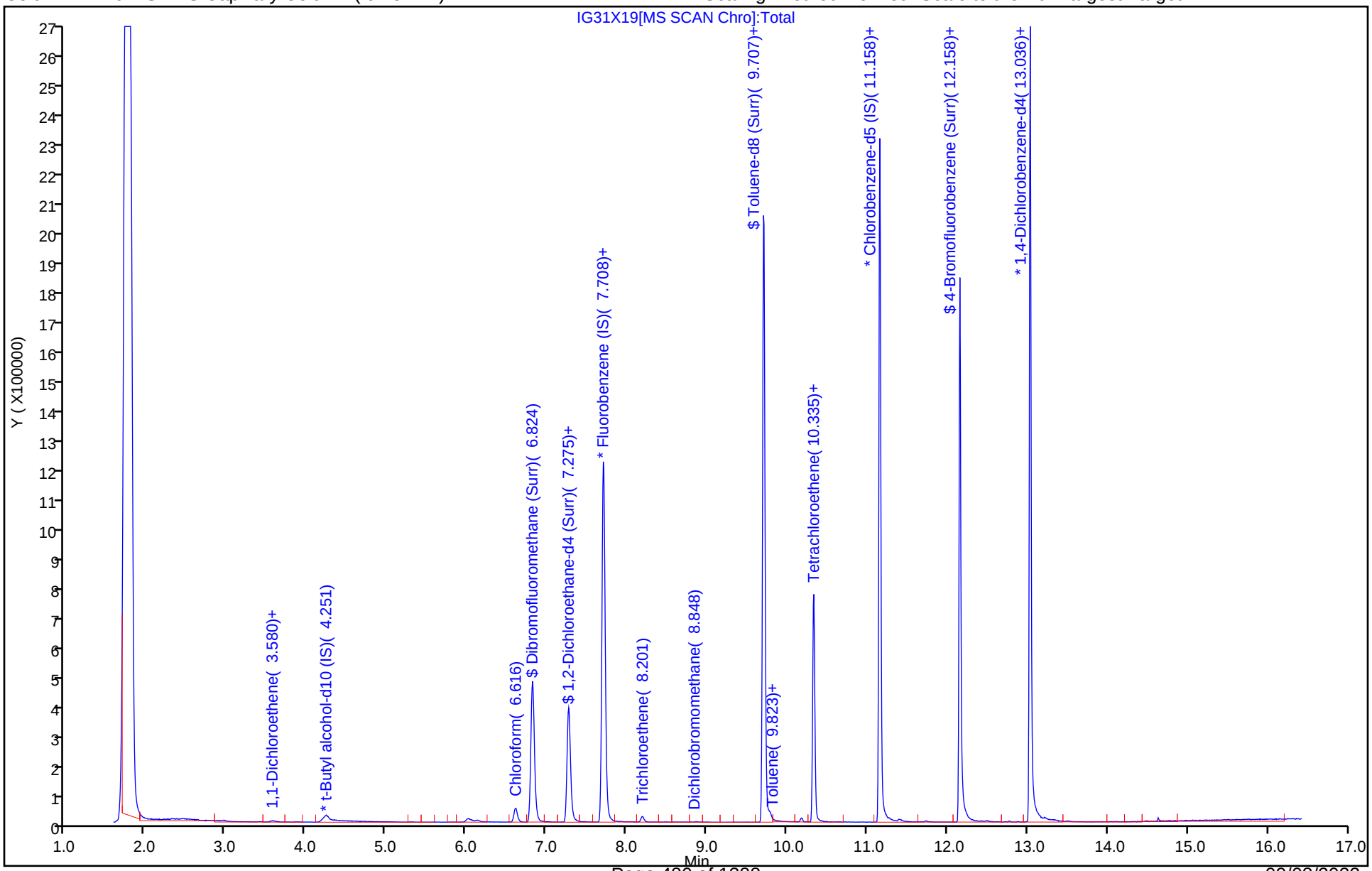
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Sep-2022 14:35:25 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D				
Injection Date:	31-Aug-2022 16:04:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-9	Lab Sample ID:	410-95715-9	Worklist Smp#:	20
Client ID:	HD-COD-SW-26-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D				
Lims ID:	410-95715-A-9				
Client ID:	HD-COD-SW-26-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 16:04:30	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-020				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 14:35:25	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1635				

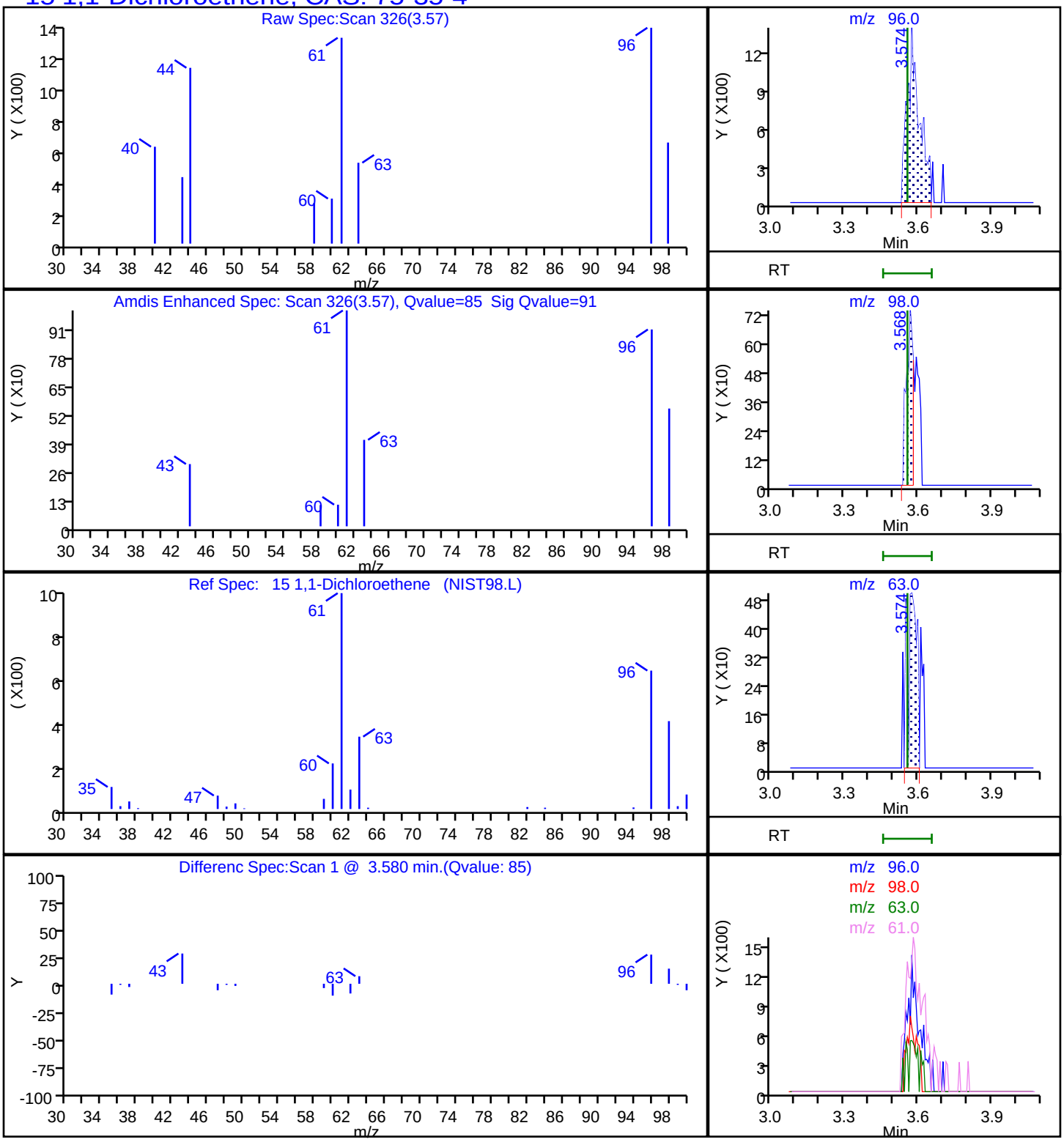
First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:49:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.1	110.85
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.99
$ 78 Toluene-d8 (Surr)	10.0	9.50	94.97
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.36	93.58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D				
Injection Date:	31-Aug-2022 16:04:30	Instrument ID:	19930		
Lims ID:	410-95715-A-9	Lab Sample ID:	410-95715-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

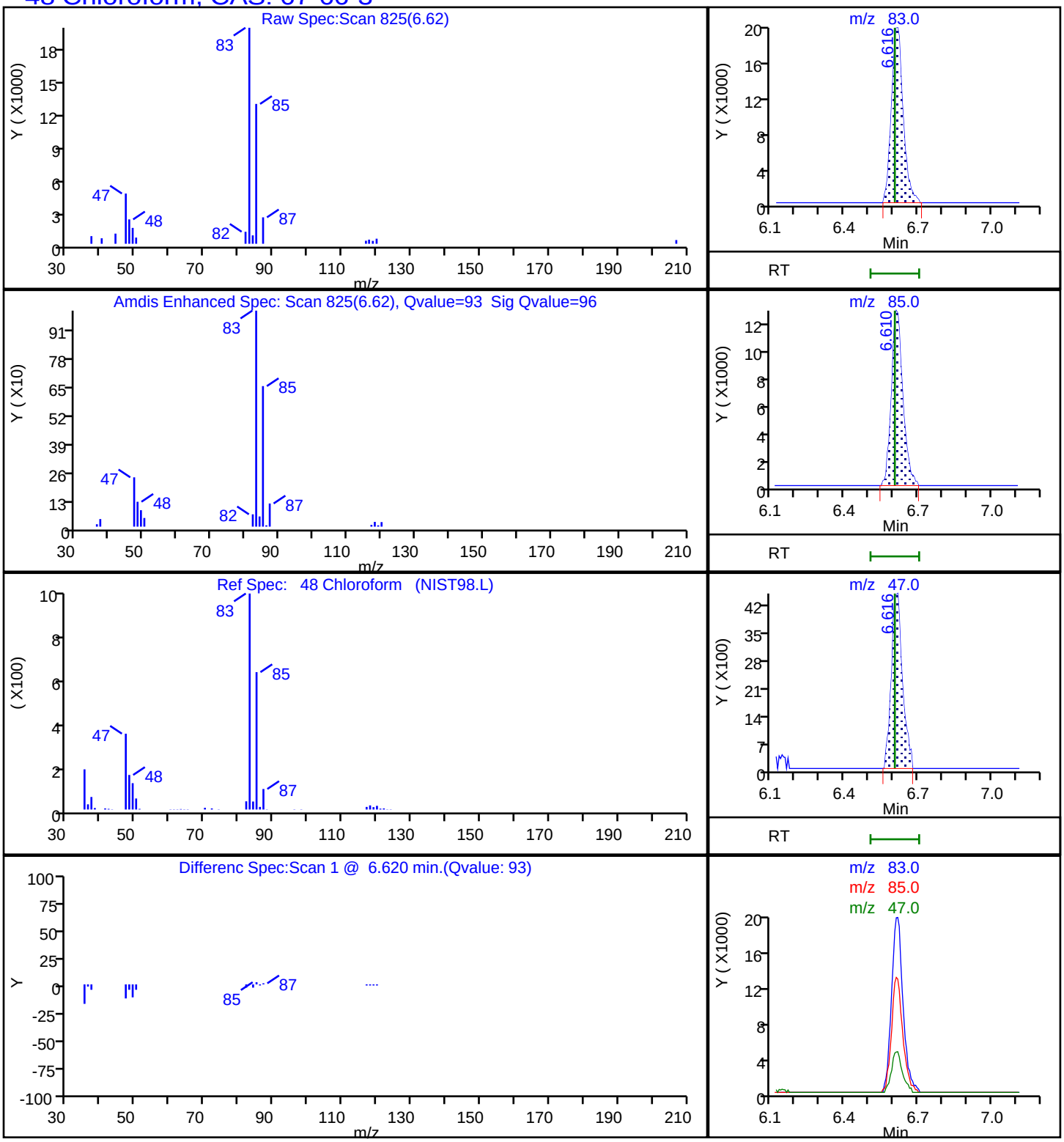
15 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D				
Injection Date:	31-Aug-2022 16:04:30	Instrument ID:	19930		
Lims ID:	410-95715-A-9	Lab Sample ID:	410-95715-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

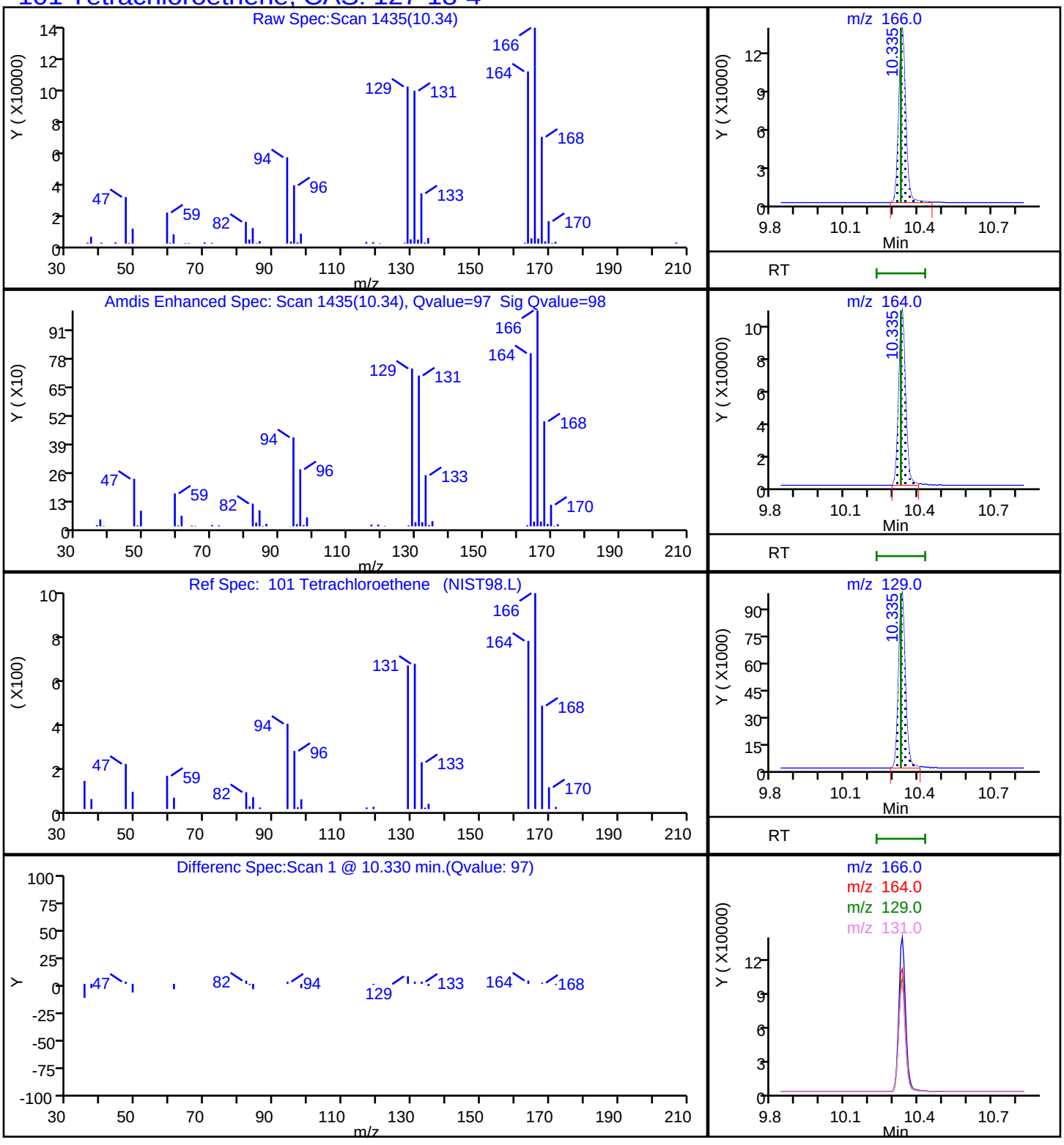
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D				
Injection Date:	31-Aug-2022 16:04:30	Instrument ID:	19930		
Lims ID:	410-95715-A-9	Lab Sample ID:	410-95715-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

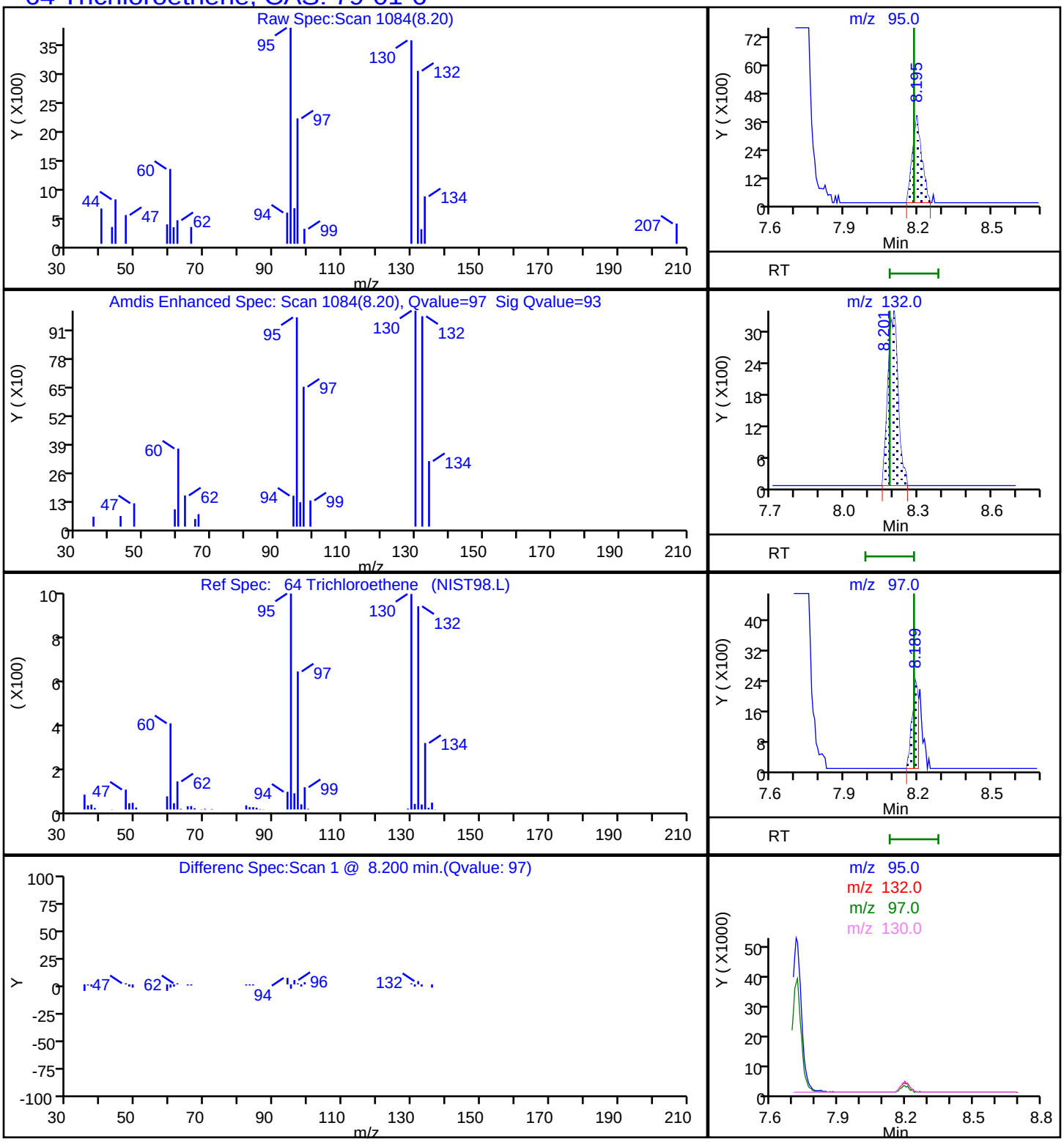
101 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D				
Injection Date:	31-Aug-2022 16:04:30	Instrument ID:	19930		
Lims ID:	410-95715-A-9	Lab Sample ID:	410-95715-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

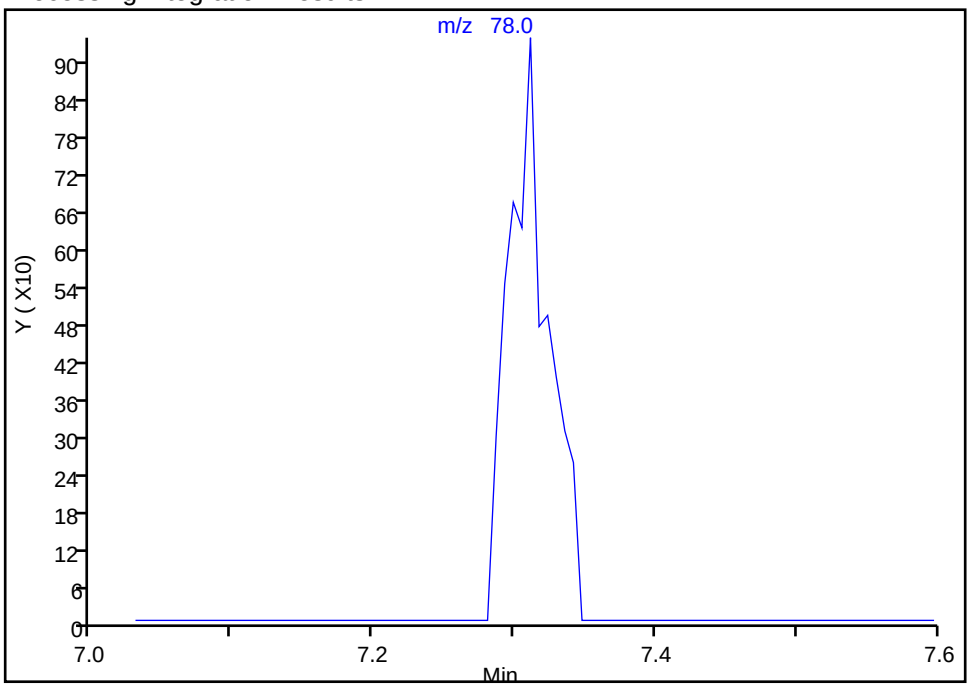
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D				
Injection Date:	31-Aug-2022 16:04:30	Instrument ID:	19930		
Lims ID:	410-95715-A-9	Lab Sample ID:	410-95715-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

57 Benzene, CAS: 71-43-2

Signal: 1

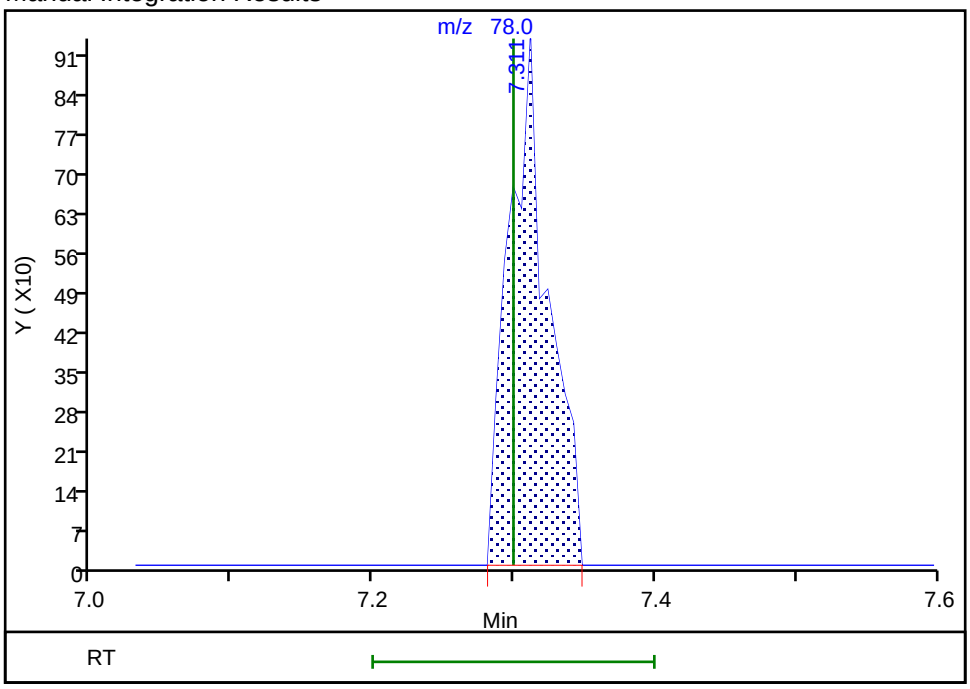
Not Detected
Expected RT: 7.30

Processing Integration Results



Manual Integration Results

RT: 7.31
Area: 1827
Amount: 0.008917
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:49:02
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

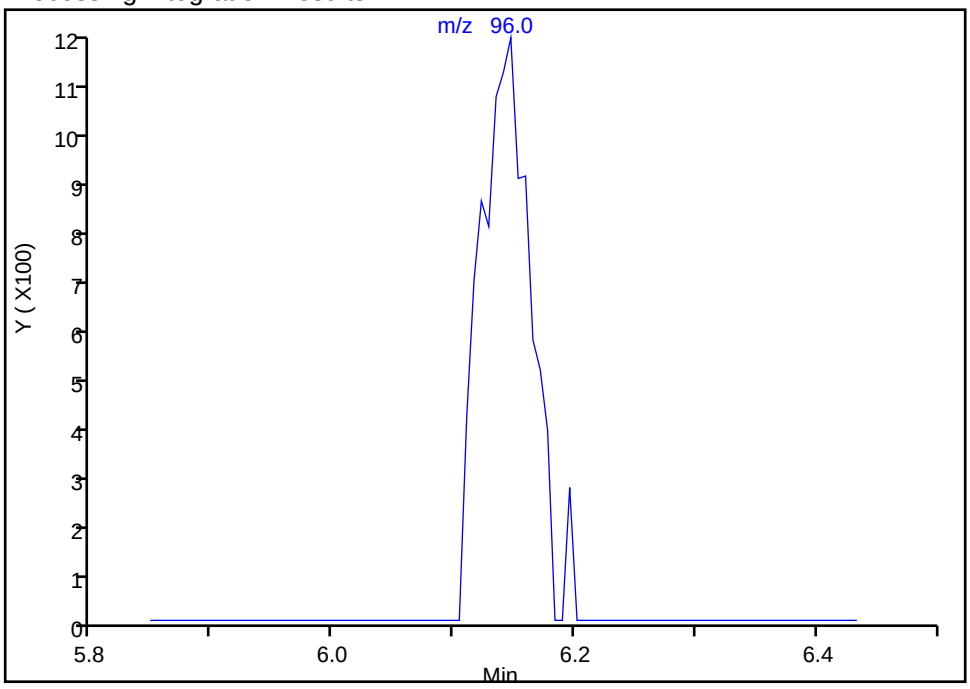
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D				
Injection Date:	31-Aug-2022 16:04:30	Instrument ID:	19930		
Lims ID:	410-95715-A-9	Lab Sample ID:	410-95715-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

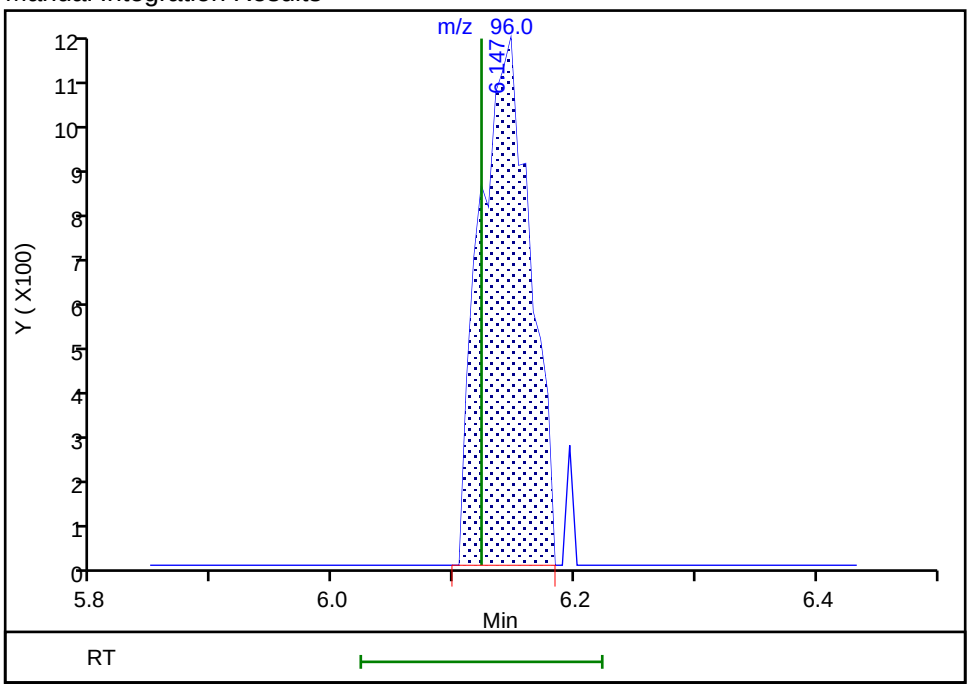
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.15
Area: 3382
Amount: 0.063508
Amount Units: ug/l



Reviewer: innoonk, 01-Sep-2022 14:35:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

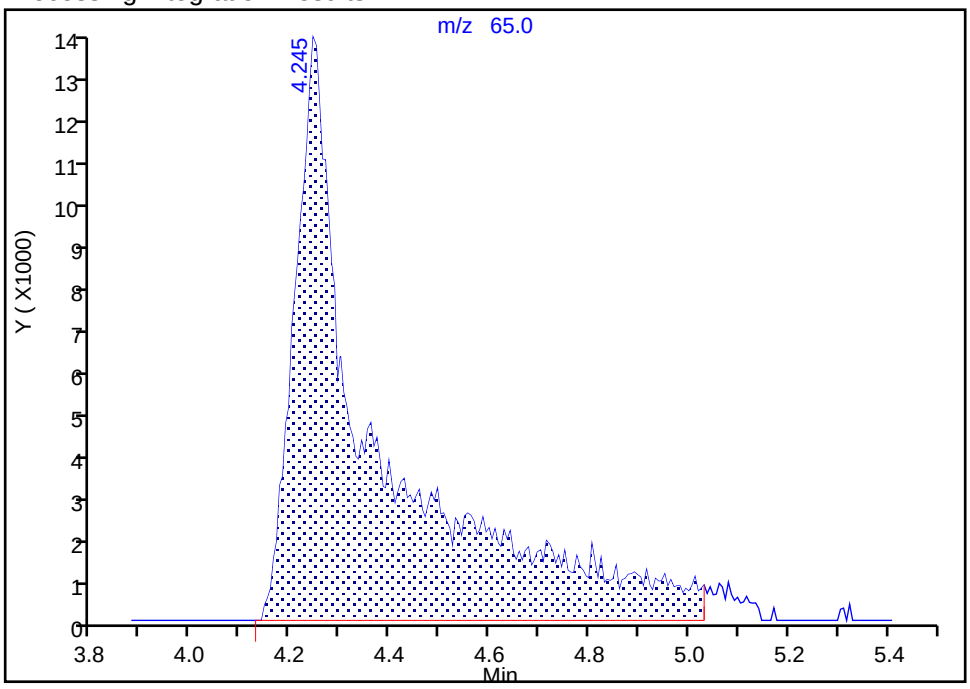
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X19.D				
Injection Date:	31-Aug-2022 16:04:30	Instrument ID:	19930		
Lims ID:	410-95715-A-9	Lab Sample ID:	410-95715-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

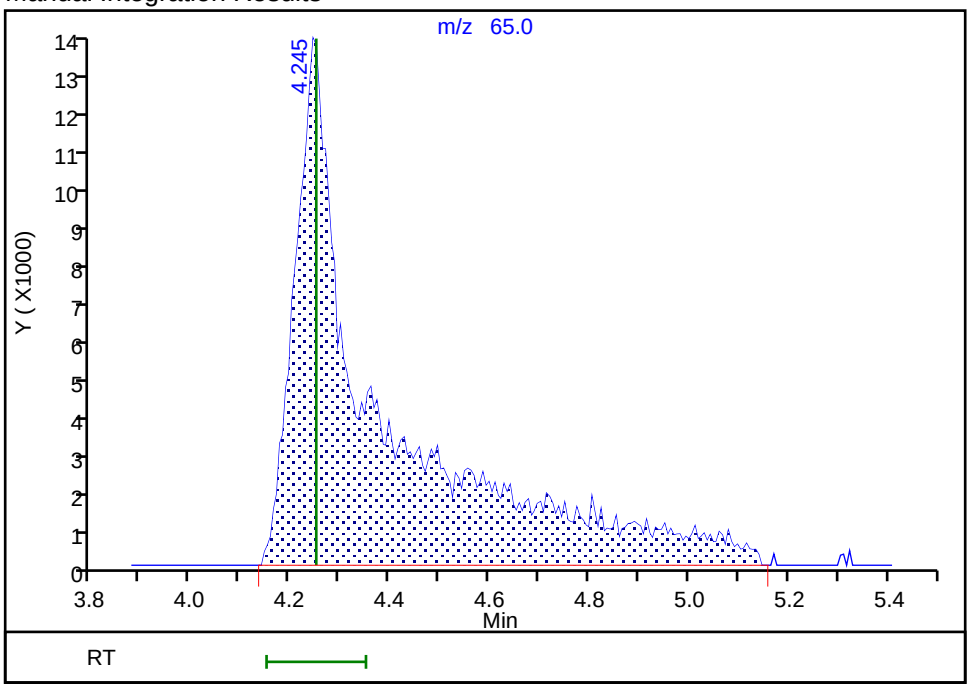
Processing Integration Results

RT: 4.24
Area: 149149
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.24
Area: 152748
Amount: 50.000000
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:06:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-95715-10

Matrix: Water Lab File ID: IG31X20.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:35

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 16:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.3	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	^c cn	0.50	0.10
75-15-0	Carbon disulfide	0.11	J	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND	^c cn	0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	0.12	J ^c cn	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.14	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	0.10	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-95715-10

Matrix: Water Lab File ID: IG31X20.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:35

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 16:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.13	J	0.50	0.080
75-01-4	Vinyl chloride	ND	^c cn	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D
Lims ID: 410-95715-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 31-Aug-2022 16:26:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-021
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:09:02 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:50:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.129	2.136	-0.007	97	7653	0.1243	
5 Vinyl chloride	62		2.245				ND	
7 Bromomethane	94		2.593				ND	
8 Chloroethane	64		2.696				ND	
15 1,1-Dichloroethene	96		3.556				ND	
16 Acetone	43	3.617	3.574	0.043	95	18721	2.34	
20 Carbon disulfide	76	3.867	3.861	0.006	95	12767	0.1144	M
25 Methylene Chloride	84		4.221				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.233	4.251	-0.018	19	145186	50.0	M
29 Methyl tert-butyl ether	73		4.635				ND	
30 trans-1,2-Dichloroethene	96		4.647				ND	
32 1,1-Dichloroethane	63		5.293				ND	
38 2-Butanone (MEK)	43		6.086				ND	7
39 cis-1,2-Dichloroethene	96	6.129	6.123	0.006	79	7677	0.1386	
46 Chlorobromomethane	128		6.452				ND	
48 Chloroform	83	6.610	6.604	0.006	88	7828	0.0861	
$ 49 Dibromofluoromethane (Surr)	113	6.817	6.811	0.006	93	486544	11.0	
50 1,1,1-Trichloroethane	97		6.824				ND	
54 Carbon tetrachloride	117		7.043				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	56	95337	10.5	
57 Benzene	78		7.299				ND	7
58 1,2-Dichloroethane	62		7.372				ND	
* 61 Fluorobenzene (IS)	96	7.701	7.702	-0.001	99	1759481	10.0	
64 Trichloroethene	95	8.189	8.183	0.006	97	7248	0.1278	M
66 1,2-Dichloropropane	63		8.506				ND	
71 Dichlorobromomethane	83		8.854				ND	7
76 cis-1,3-Dichloropropene	75		9.396				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	1834435	9.62	
79 Toluene	92	9.780	9.780	0.000	96	15423	0.1024	
97 trans-1,3-Dichloropropene	75		10.036				ND	
100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.335	10.329	0.006	94	4610	0.0641	
103 2-Hexanone	43		10.445				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.725				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	86	1468917	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106	11.725	11.713	0.012	89	2755	0.0265	
115 Styrene	104		11.725				ND	7
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	93	666230	9.53	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	821923	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Sep-2022 13:09:03 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D

Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10	Worklist Smp#:	21
Client ID:	HD-COD-SW-27-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Lims ID:	410-95715-A-10				
Client ID:	HD-COD-SW-27-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Aug-2022 16:26:30	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-021				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 13:09:02	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

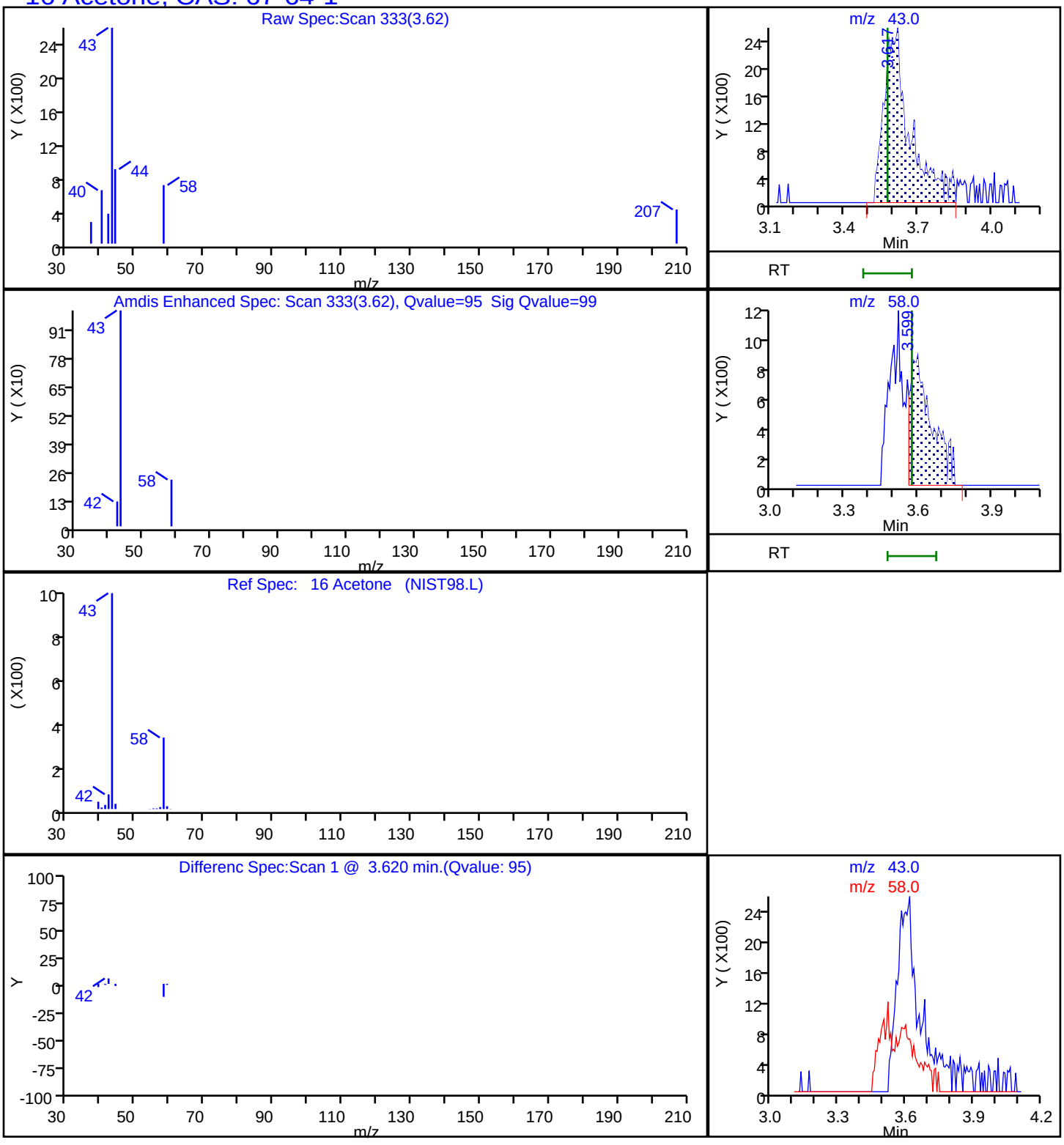
First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:50:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.0	110.15
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.08
$ 78 Toluene-d8 (Surr)	10.0	9.62	96.23
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.53	95.32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

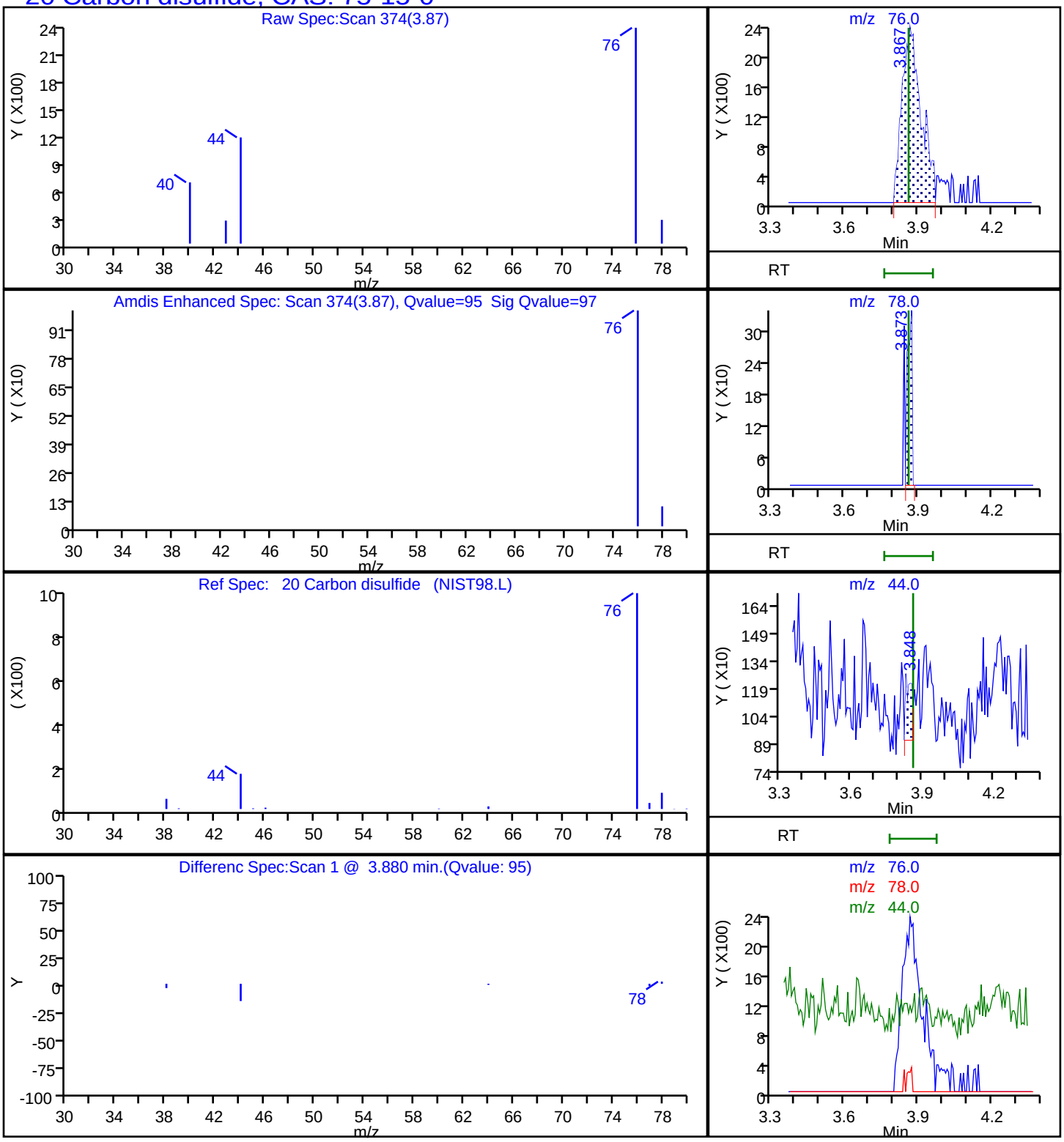
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

20 Carbon disulfide, CAS: 75-15-0

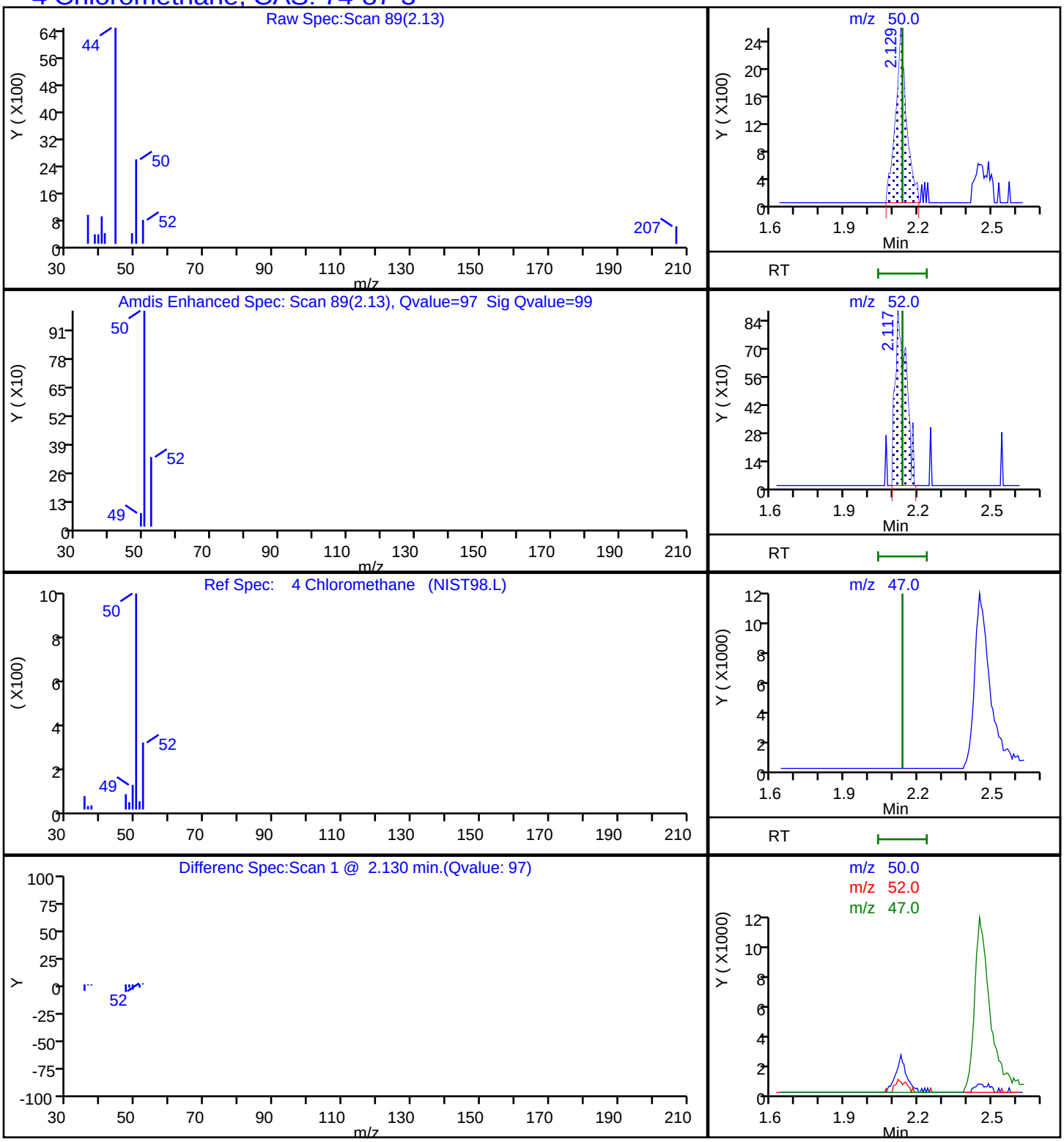


Report Date: 01-Sep-2022 13:09:03 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

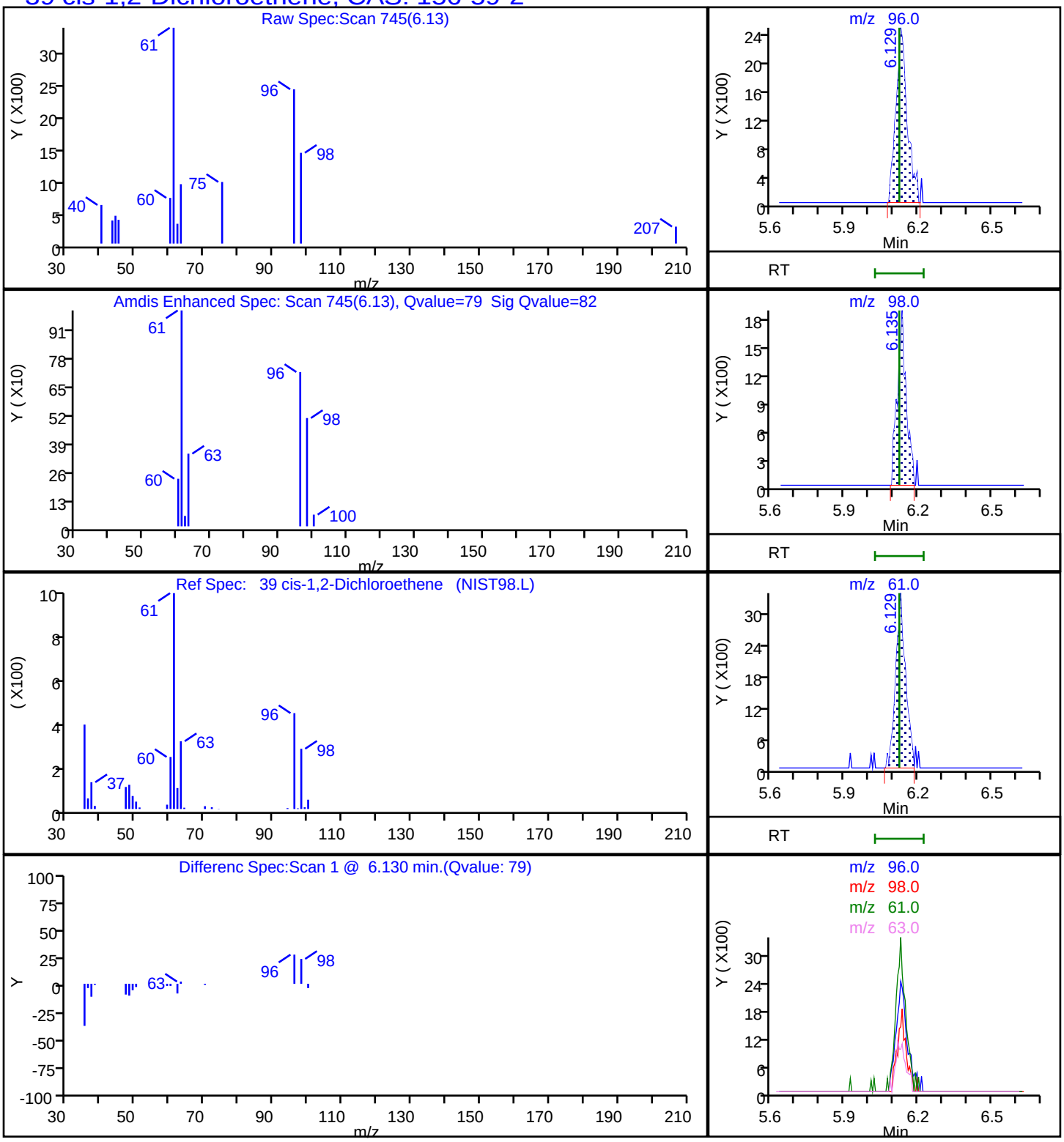
4 Chloromethane, CAS: 74-87-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

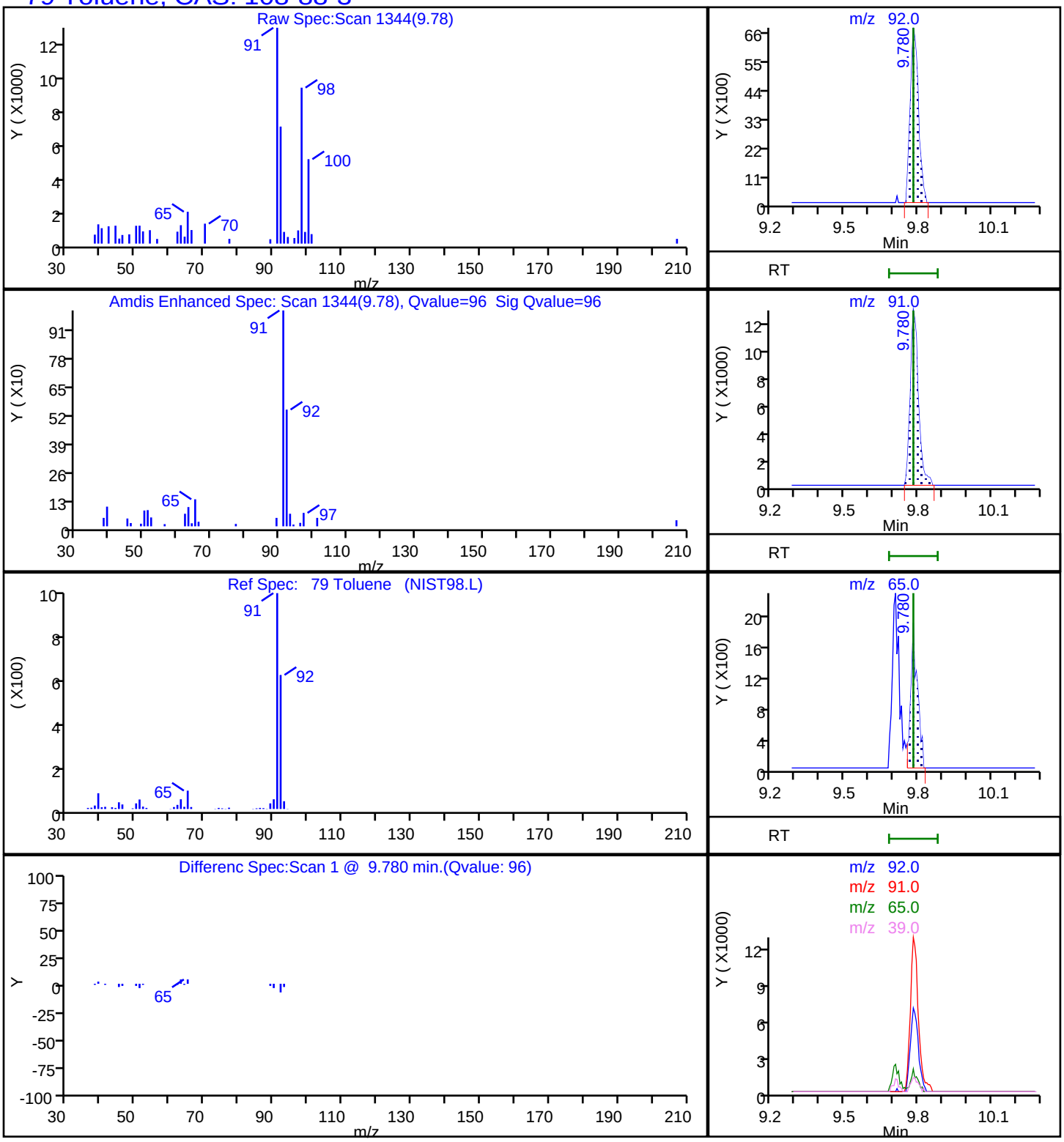
39 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

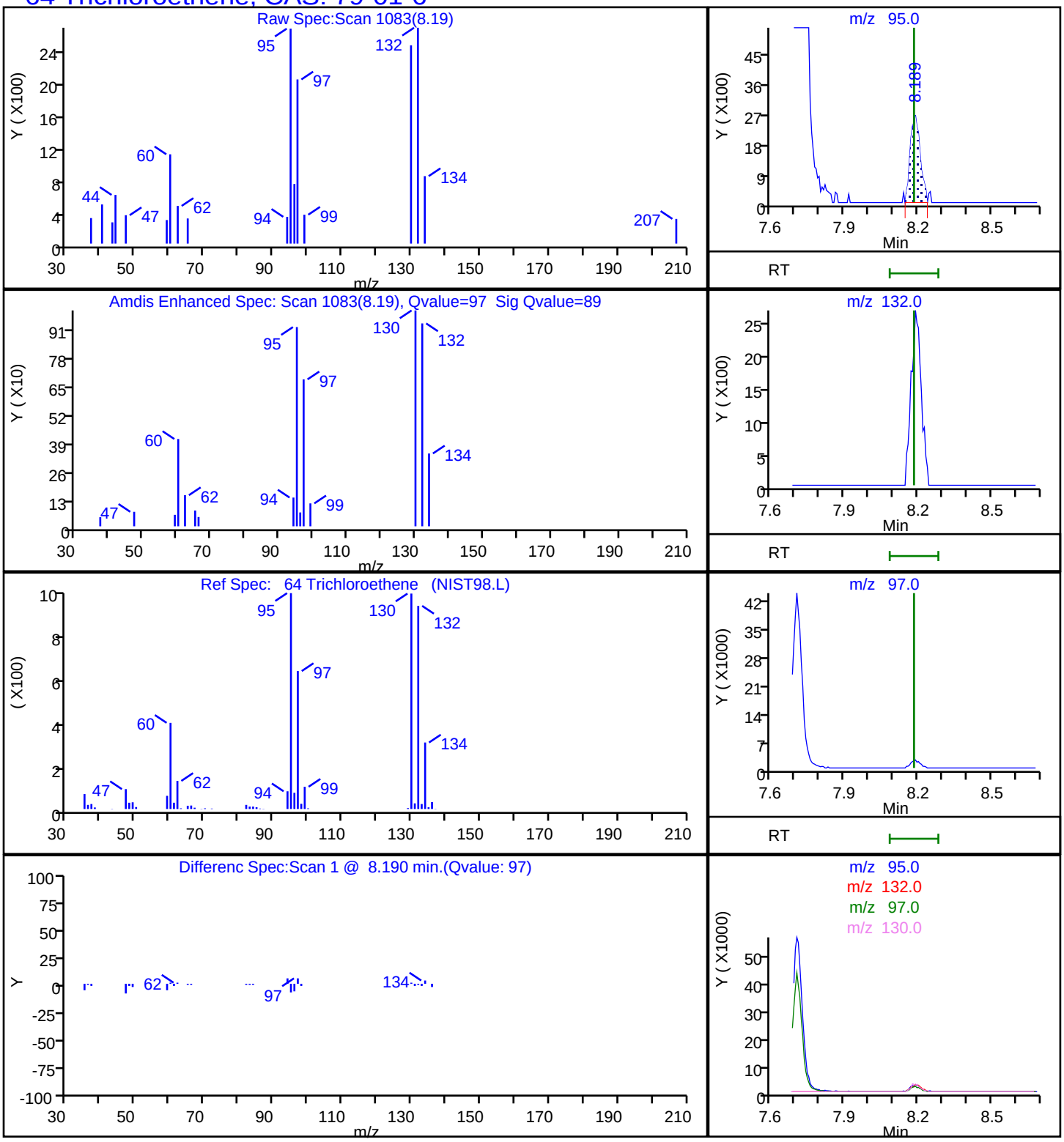
79 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

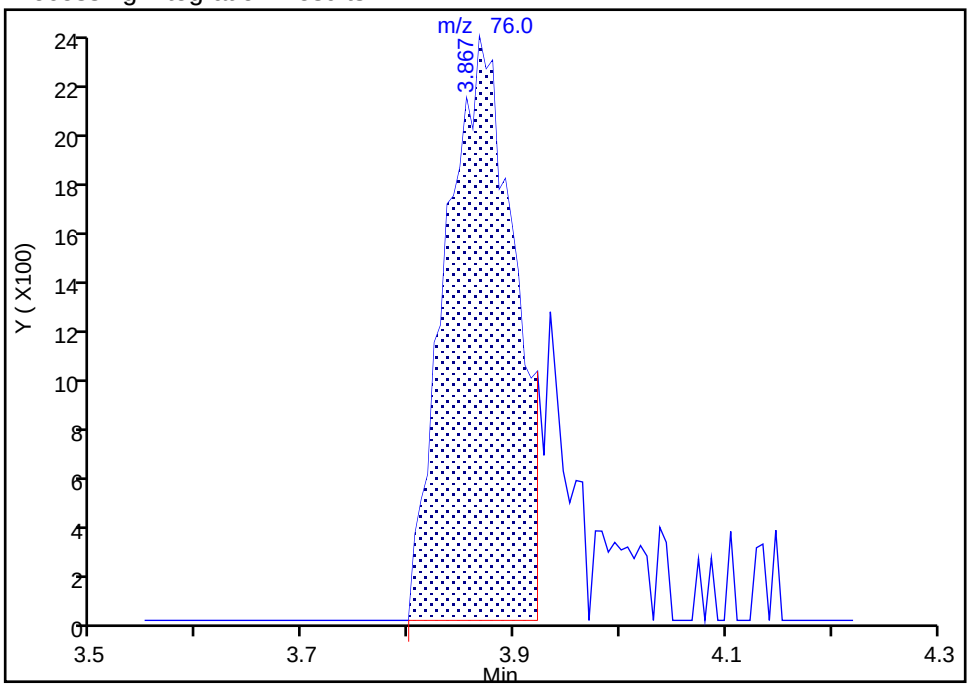
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Carbon disulfide, CAS: 75-15-0

Signal: 1

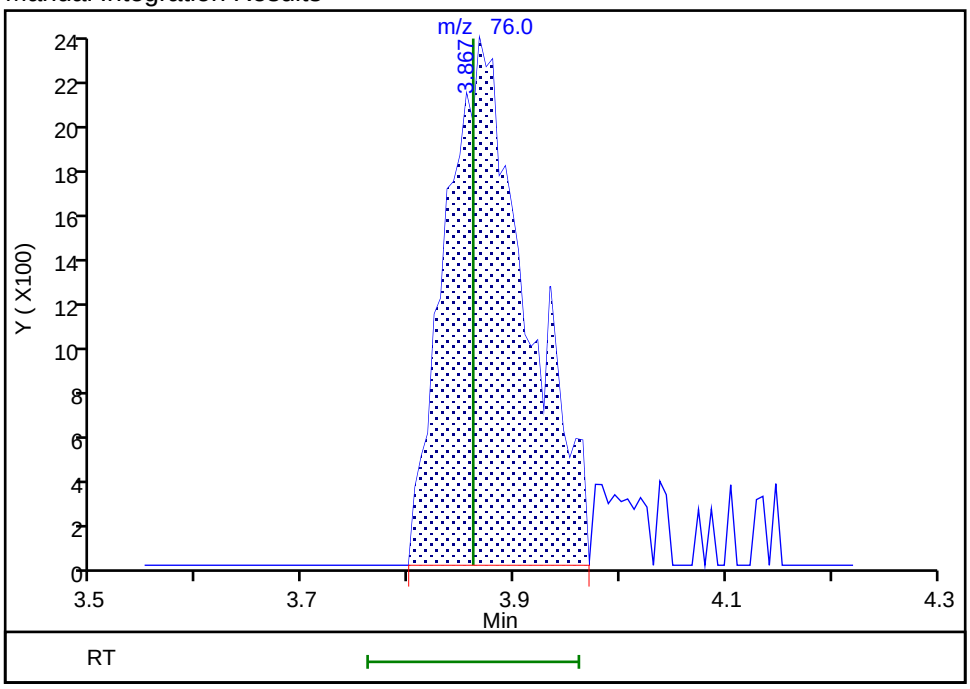
Processing Integration Results

RT: 3.87
Area: 10901
Amount: 0.097694
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 12767
Amount: 0.114417
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 09:50:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

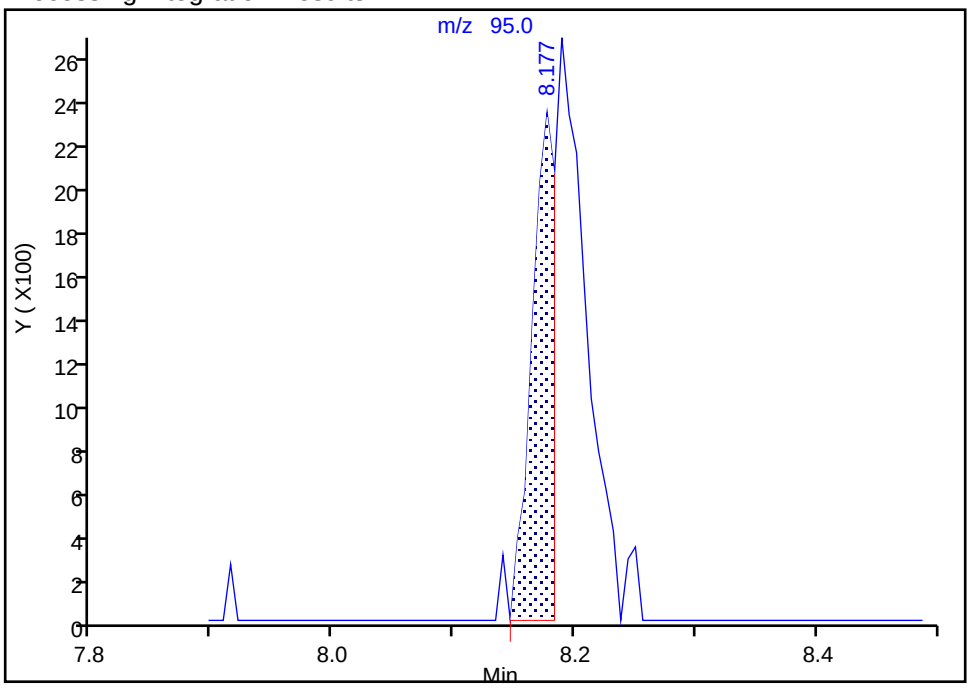
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6

Signal: 1

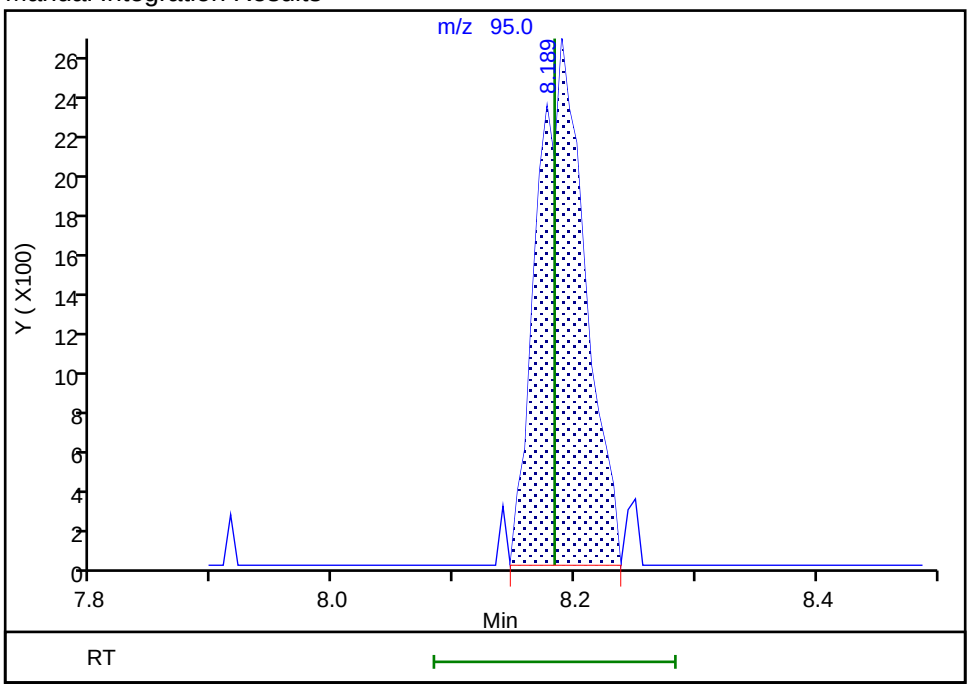
Processing Integration Results

RT: 8.18
Area: 3125
Amount: 0.055109
Amount Units: ug/l



Manual Integration Results

RT: 8.19
Area: 7248
Amount: 0.127819
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:08:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

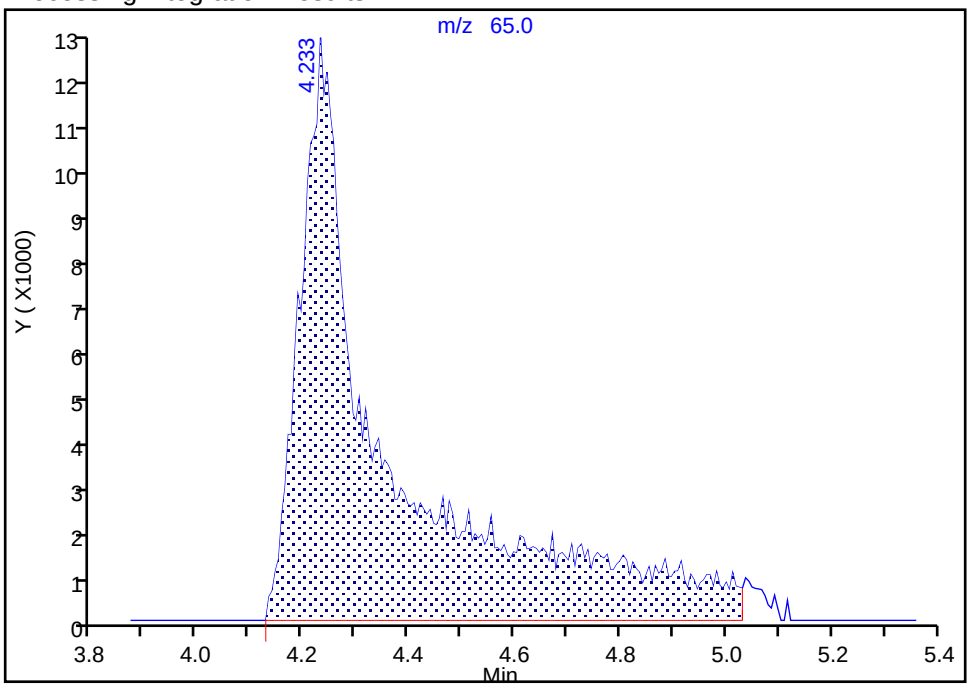
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X20.D				
Injection Date:	31-Aug-2022 16:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-10	Lab Sample ID:	410-95715-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

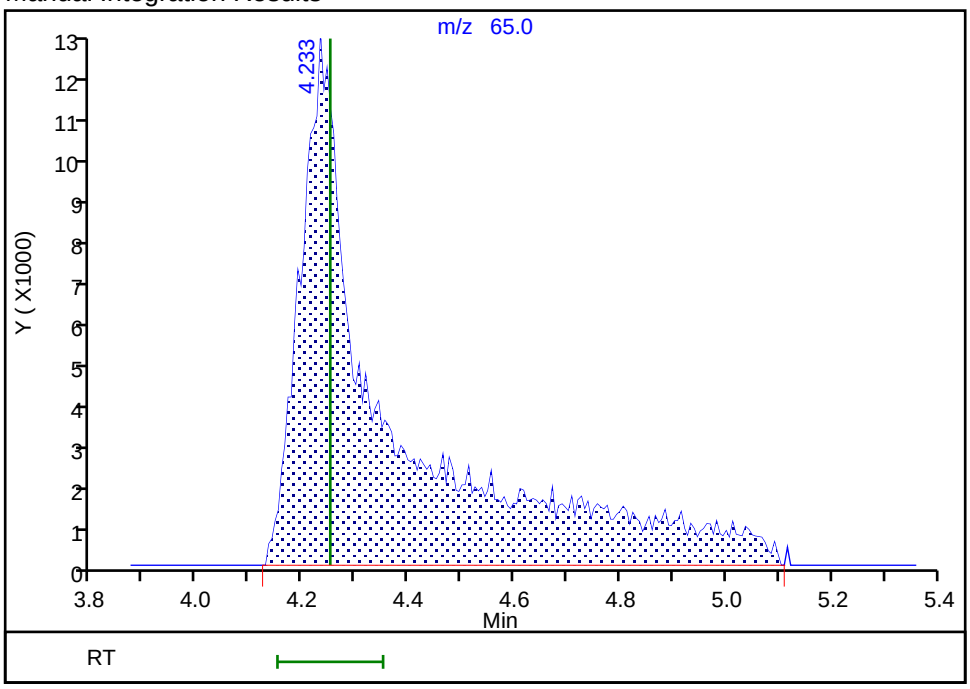
Processing Integration Results

RT: 4.23
Area: 142806
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.23
Area: 145186
Amount: 50.000000
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:08:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-95715-11

Matrix: Water Lab File ID: IS01X09.D

Analysis Method: 8260D Date Collected: 08/25/2022 13:15

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 14:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND	^c *-cn	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND	^c *-cn	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.1	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	^c cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND	^c cn	0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.093	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-95715-11

Matrix: Water Lab File ID: IS01X09.D

Analysis Method: 8260D Date Collected: 08/25/2022 13:15

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 14:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.11	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X09.D
Lims ID: 410-95715-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 01-Sep-2022 14:44:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065465-010
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Sep-2022 10:36:57 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1620

First Level Reviewer: innoonk Date: 02-Sep-2022 10:36:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.148				ND	7
5 Vinyl chloride	62		2.251				ND	
7 Bromomethane	94		2.599				ND	7
8 Chloroethane	64		2.690				ND	
15 1,1-Dichloroethene	96		3.568				ND	
16 Acetone	43	3.599	3.586	0.013	97	28587	3.07	
20 Carbon disulfide	76		3.879				ND	7
25 Methylene Chloride	84		4.239				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.239	4.245	-0.006	21	168627	50.0	
29 Methyl tert-butyl ether	73		4.641				ND	
30 trans-1,2-Dichloroethene	96		4.653				ND	
32 1,1-Dichloroethane	63		5.306				ND	
38 2-Butanone (MEK)	43		6.092				ND	U
39 cis-1,2-Dichloroethene	96	6.135	6.129	0.006	67	4995	0.0624	
46 Chlorobromomethane	128		6.458				ND	
48 Chloroform	83	6.604	6.610	-0.006	91	12214	0.0929	
$ 49 Dibromofluoromethane (Surr)	113	6.817	6.818	-0.001	93	661274	10.4	
50 1,1,1-Trichloroethane	97		6.830				ND	
54 Carbon tetrachloride	117		7.049				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	67	139006	10.6	
57 Benzene	78	7.299	7.305	-0.006	84	4152	0.0135	7a
58 1,2-Dichloroethane	62		7.372				ND	
* 61 Fluorobenzene (IS)	96	7.708	7.708	0.000	99	2542892	10.0	
64 Trichloroethene	95	8.189	8.183	0.006	93	5844	0.0713	
66 1,2-Dichloropropane	63		8.512				ND	
71 Dichlorobromomethane	83		8.854				ND	7
76 cis-1,3-Dichloropropene	75		9.396				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2375503	9.78	
79 Toluene	92	9.780	9.780	0.000	98	21136	0.1101	
97 trans-1,3-Dichloropropene	75		10.036				ND	
100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.329	10.329	0.000	94	16906	0.1845	
103 2-Hexanone	43		10.451				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.731				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1871351	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	7
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	92	860056	9.66	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1010338	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

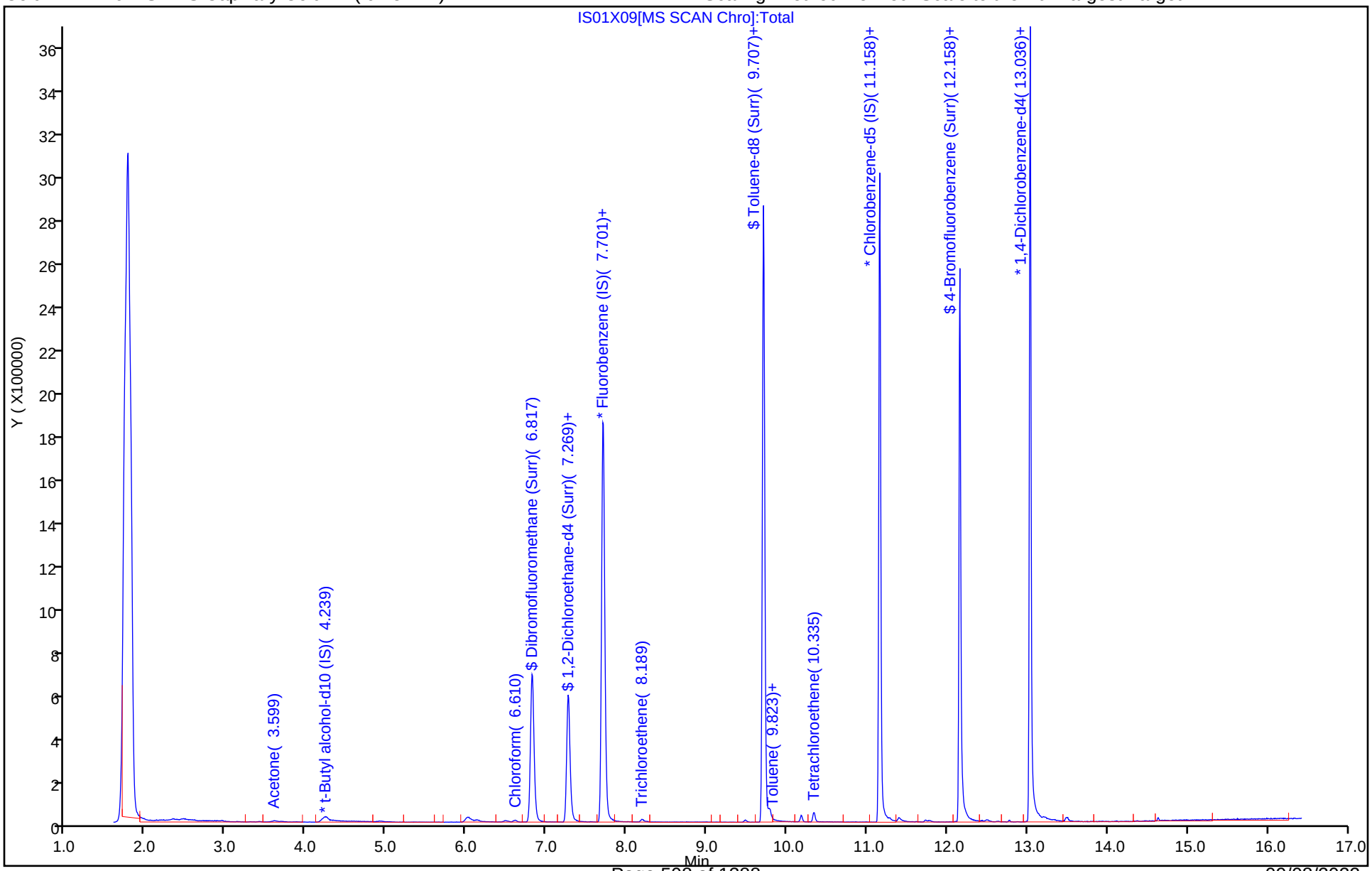
Report Date: 02-Sep-2022 10:36:58 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X09.D

Injection Date:	01-Sep-2022 14:44:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-11	Lab Sample ID:	410-95715-11	Worklist Smp#:	10
Client ID:	HD-COD-SW-28-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X09.D				
Lims ID:	410-95715-A-11				
Client ID:	HD-COD-SW-28-0/1-0				
Sample Type:	Client				
Inject. Date:	01-Sep-2022 14:44:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065465-010				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Sep-2022 10:36:57	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1620				

First Level Reviewer: innoonk Date: 02-Sep-2022 10:36:57

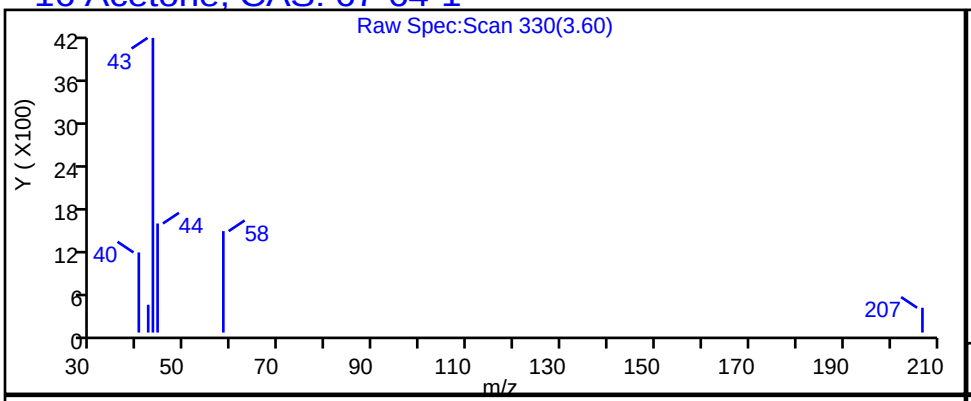
Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	10.4	103.58
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.01
$ 78 Toluene-d8 (Surr)	10.0	9.78	97.82
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.66	96.59

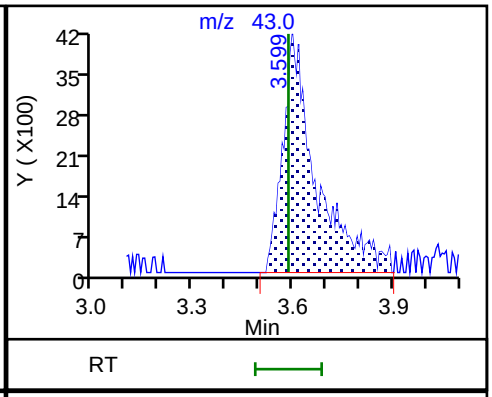
Report Date: 02-Sep-2022 10:36:58 Chrom Revision: 2.3 30-Aug-2022 19:06:20

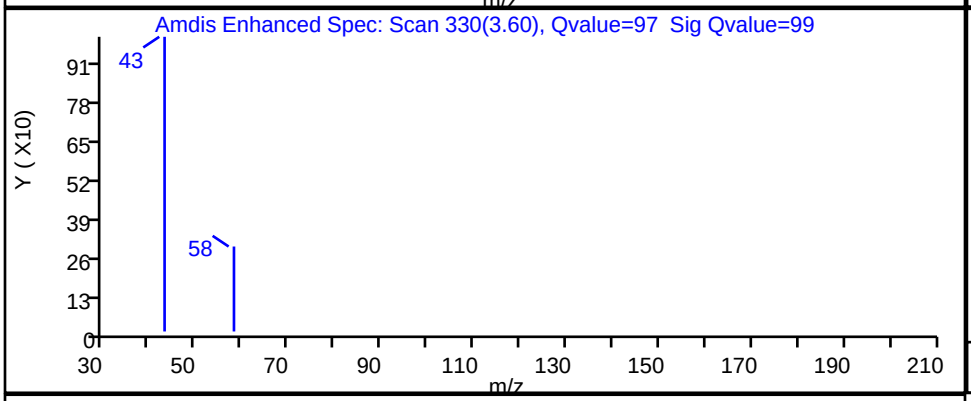
Eurofins Lancaster Laboratories Environment Testing, LLC

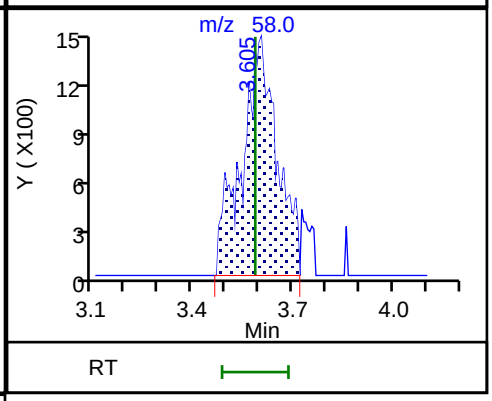
Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X09.D				
Injection Date:	01-Sep-2022 14:44:30	Instrument ID:	19930		
Lims ID:	410-95715-A-11	Lab Sample ID:	410-95715-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

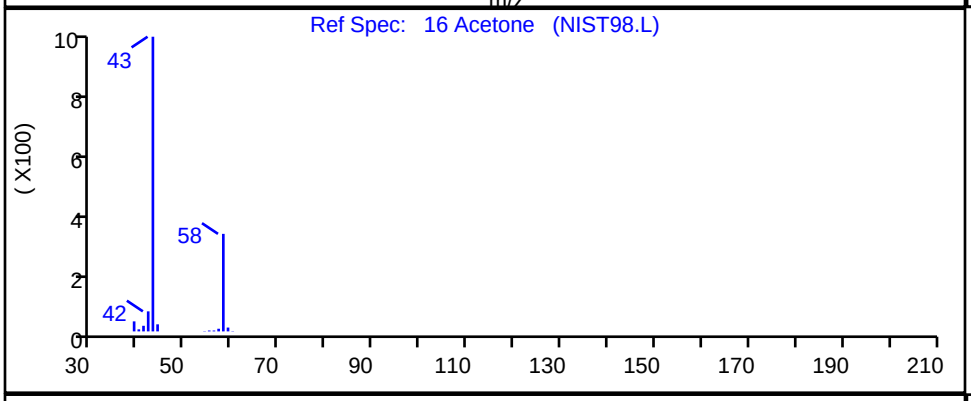
16 Acetone, CAS: 67-64-1

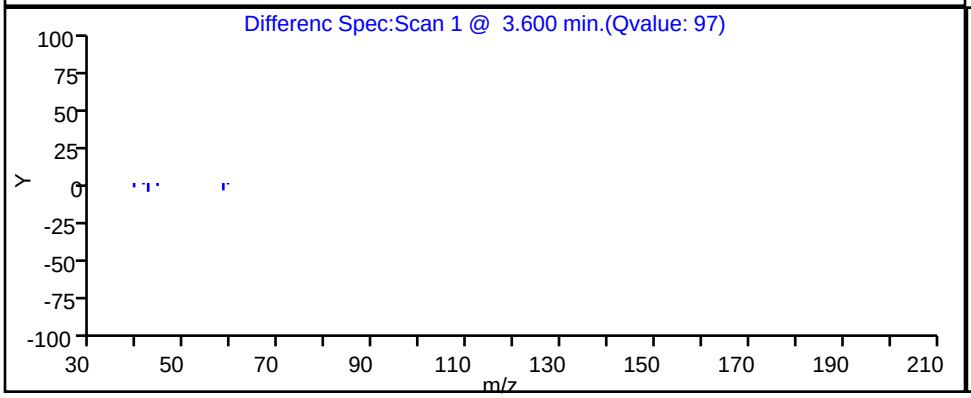


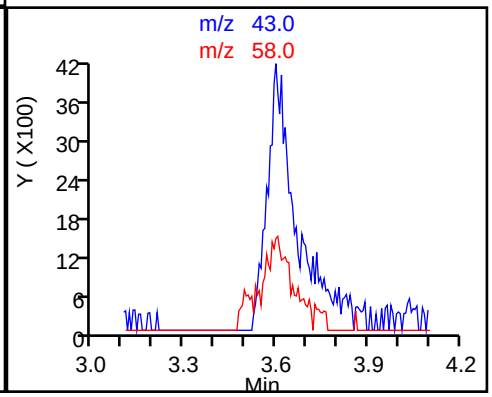








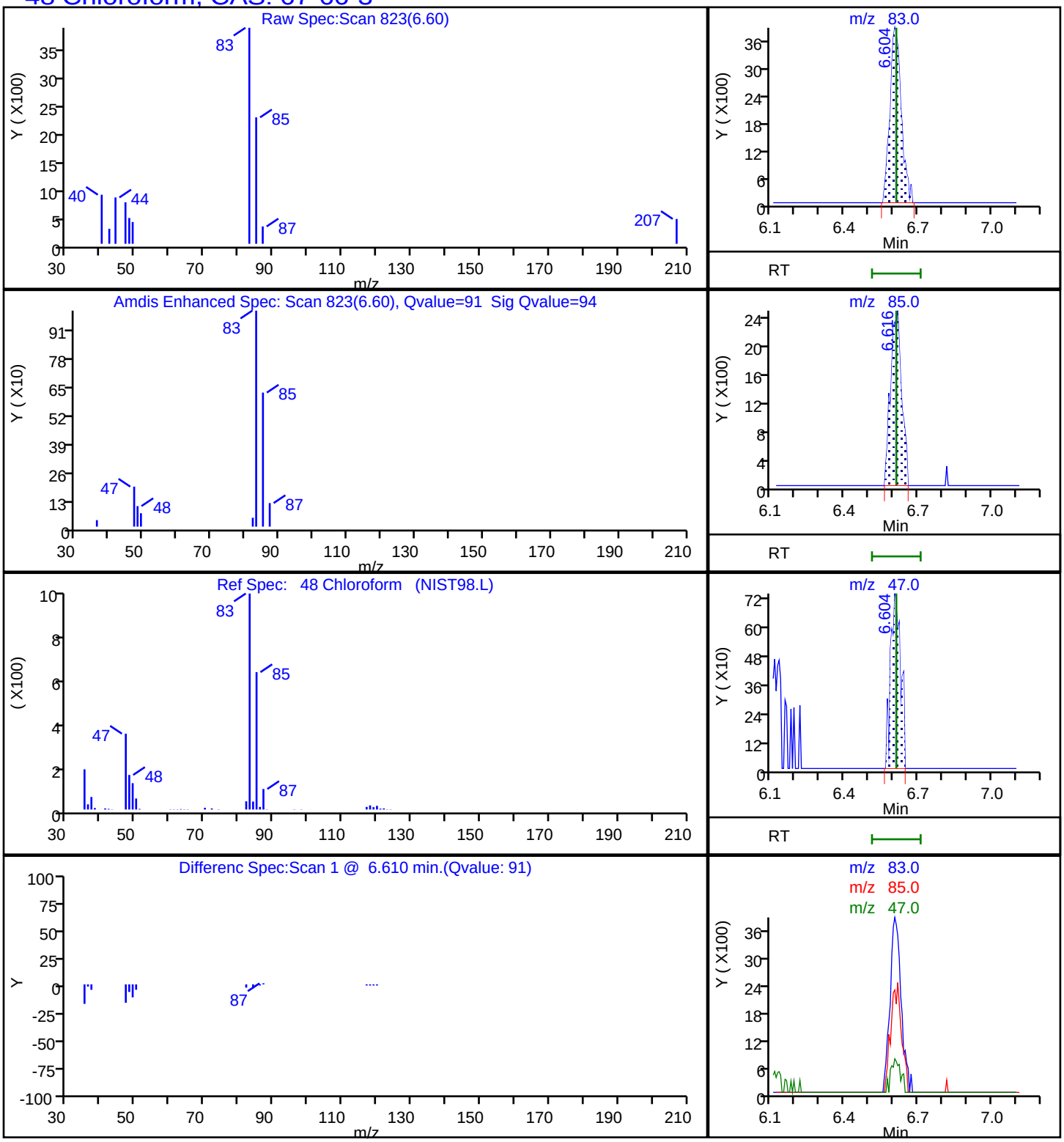




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X09.D				
Injection Date:	01-Sep-2022 14:44:30	Instrument ID:	19930		
Lims ID:	410-95715-A-11	Lab Sample ID:	410-95715-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

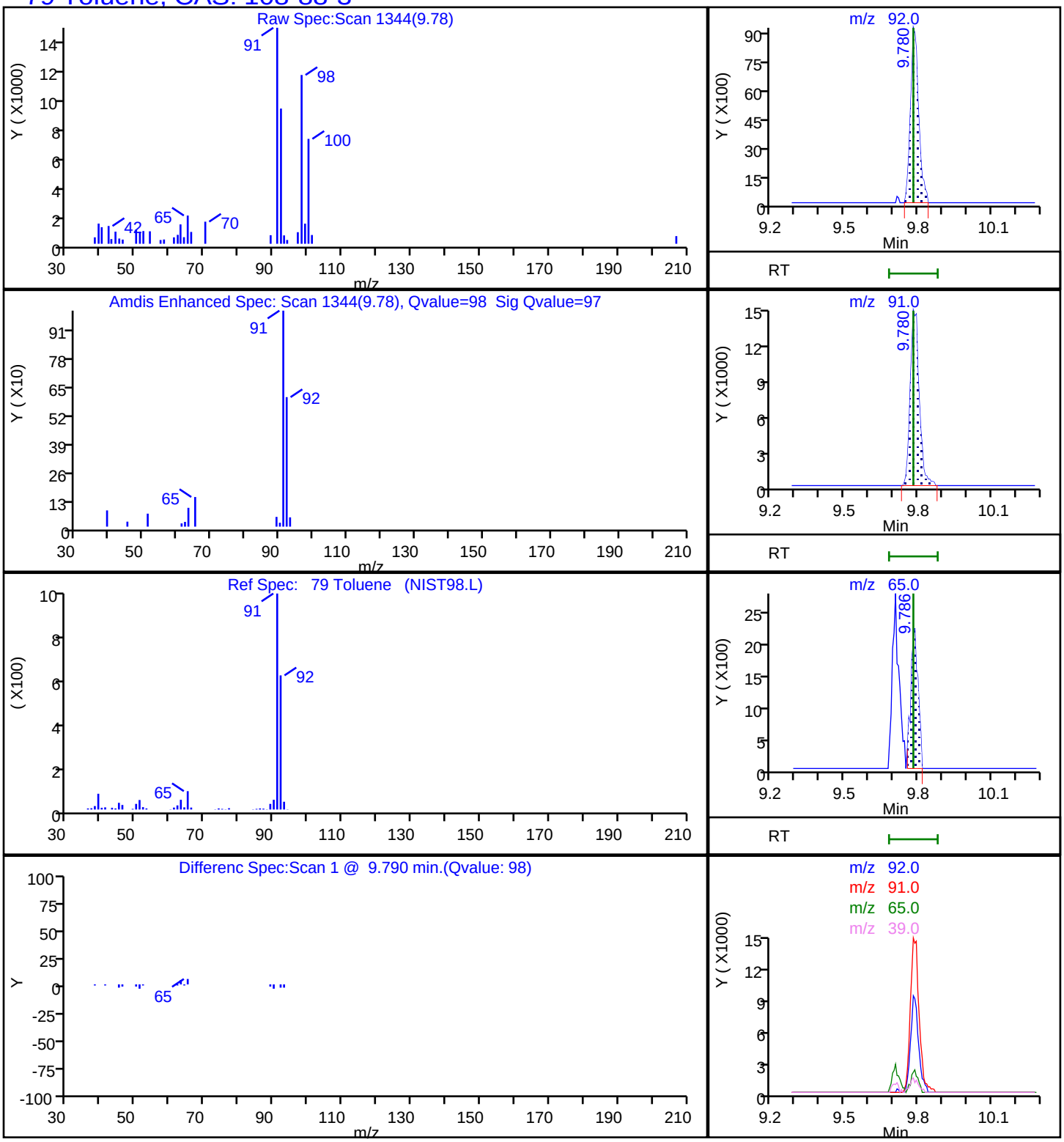
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X09.D				
Injection Date:	01-Sep-2022 14:44:30	Instrument ID:	19930		
Lims ID:	410-95715-A-11	Lab Sample ID:	410-95715-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

79 Toluene, CAS: 108-88-3



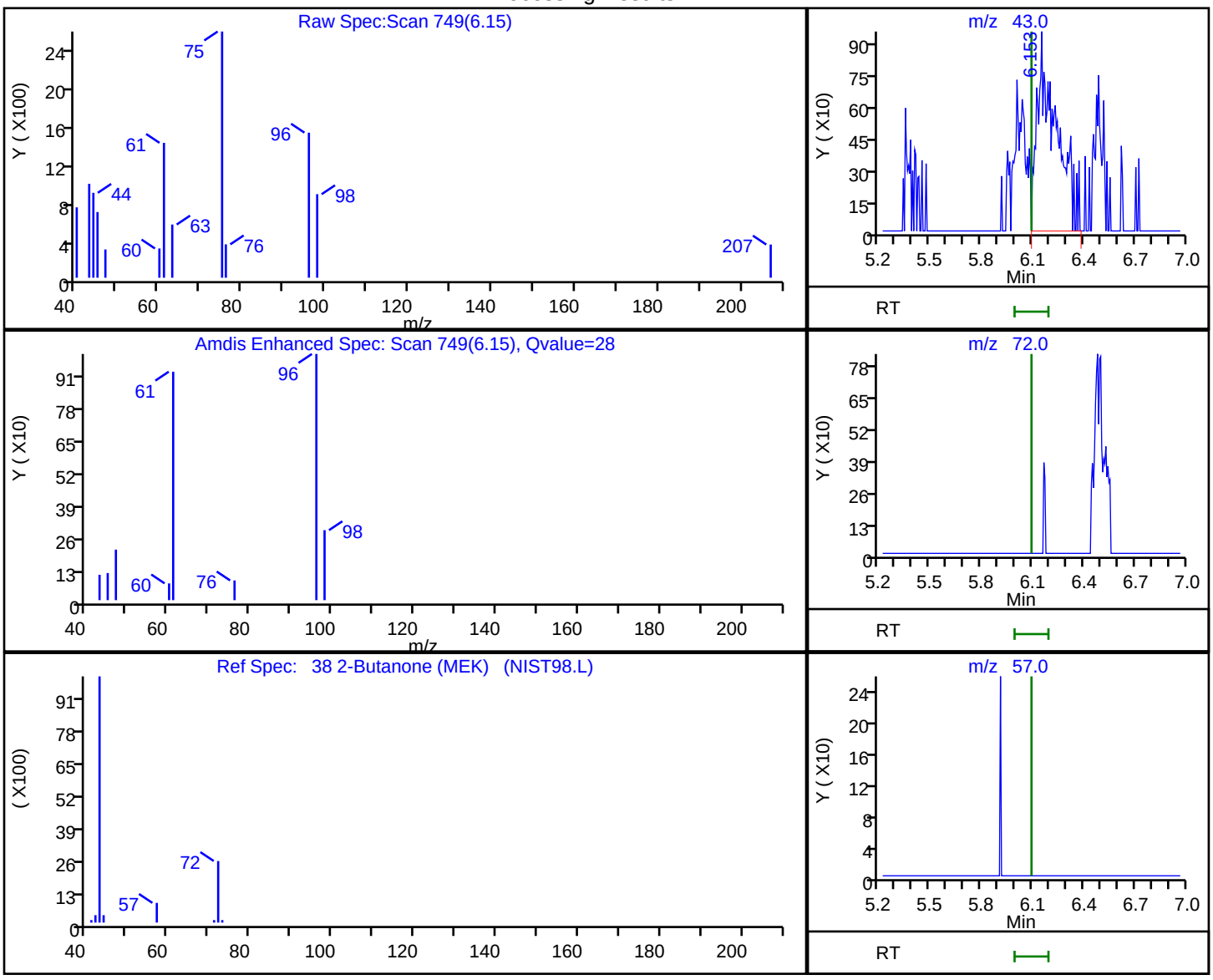
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X09.D				
Injection Date:	01-Sep-2022 14:44:30	Instrument ID:	19930		
Lims ID:	410-95715-A-11	Lab Sample ID:	410-95715-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

38 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.15	43.00	7434	0.430297
6.09	72.00	0	
6.09	57.00	0	

Reviewer: innoonk, 02-Sep-2022 10:36:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

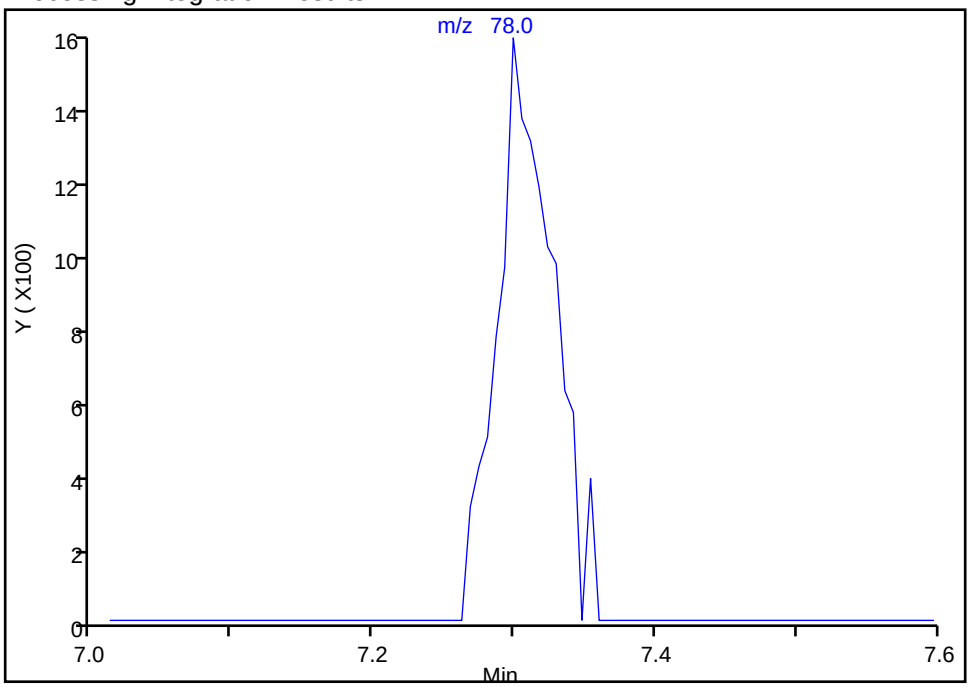
Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X09.D				
Injection Date:	01-Sep-2022 14:44:30	Instrument ID:	19930		
Lims ID:	410-95715-A-11	Lab Sample ID:	410-95715-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

57 Benzene, CAS: 71-43-2

Signal: 1

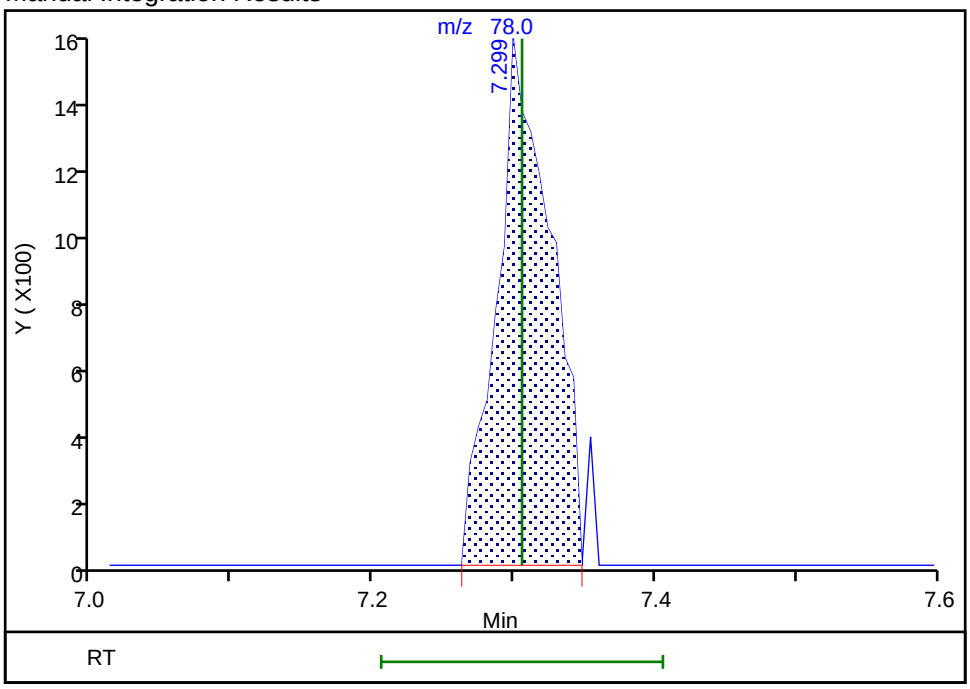
Not Detected
Expected RT: 7.31

Processing Integration Results



Manual Integration Results

RT: 7.30
Area: 4152
Amount: 0.013484
Amount Units: ug/l



Reviewer: innoonk, 02-Sep-2022 10:36:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-95715-12

Matrix: Water Lab File ID: IS01X10.D

Analysis Method: 8260D Date Collected: 08/25/2022 09:00

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 15:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND	^c *-cn	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND	^c *-cn	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.2	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	^c cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND	^c cn	0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.14	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.41	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-95715-12

Matrix: Water Lab File ID: IS01X10.D

Analysis Method: 8260D Date Collected: 08/25/2022 09:00

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 15:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.15	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X10.D
Lims ID: 410-95715-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 01-Sep-2022 15:05:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065465-011
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Sep-2022 10:38:30 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1620

First Level Reviewer: innoonk Date: 02-Sep-2022 10:38:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.141	2.148	-0.007	9	6549	0.0740	
5 Vinyl chloride	62		2.251				ND	
7 Bromomethane	94		2.599				ND	7
8 Chloroethane	64		2.690				ND	
15 1,1-Dichloroethene	96		3.568				ND	
16 Acetone	43	3.605	3.586	0.019	92	21392	2.19	
20 Carbon disulfide	76	3.873	3.879	-0.006	27	5799	0.0361	
25 Methylene Chloride	84		4.239				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.245	4.245	0.000	19	177443	50.0	
29 Methyl tert-butyl ether	73		4.641				ND	
30 trans-1,2-Dichloroethene	96		4.653				ND	
32 1,1-Dichloroethane	63		5.306				ND	
38 2-Butanone (MEK)	43		6.092				ND	7
39 cis-1,2-Dichloroethene	96	6.135	6.129	0.006	75	11450	0.1438	
46 Chlorobromomethane	128		6.458				ND	
48 Chloroform	83	6.604	6.610	-0.006	91	7914	0.0605	
$ 49 Dibromofluoromethane (Surr)	113	6.823	6.818	0.005	94	626027	9.85	
50 1,1,1-Trichloroethane	97		6.830				ND	
54 Carbon tetrachloride	117		7.049				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	66	138143	10.6	
57 Benzene	78	7.299	7.305	-0.006	82	4236	0.0138	7M
58 1,2-Dichloroethane	62		7.372				ND	
* 61 Fluorobenzene (IS)	96	7.707	7.708	-0.001	99	2530490	10.0	
64 Trichloroethene	95	8.195	8.183	0.012	95	11982	0.1469	
66 1,2-Dichloropropane	63		8.512				ND	
71 Dichlorobromomethane	83		8.854				ND	
76 cis-1,3-Dichloropropene	75		9.396				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	2475826	10.1	
79 Toluene	92	9.792	9.780	0.012	96	13995	0.0719	
97 trans-1,3-Dichloropropene	75		10.036				ND	
100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.335	10.329	0.006	97	37900	0.4080	
103 2-Hexanone	43		10.451				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.731				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1897307	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	92	807024	8.94	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	990958	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

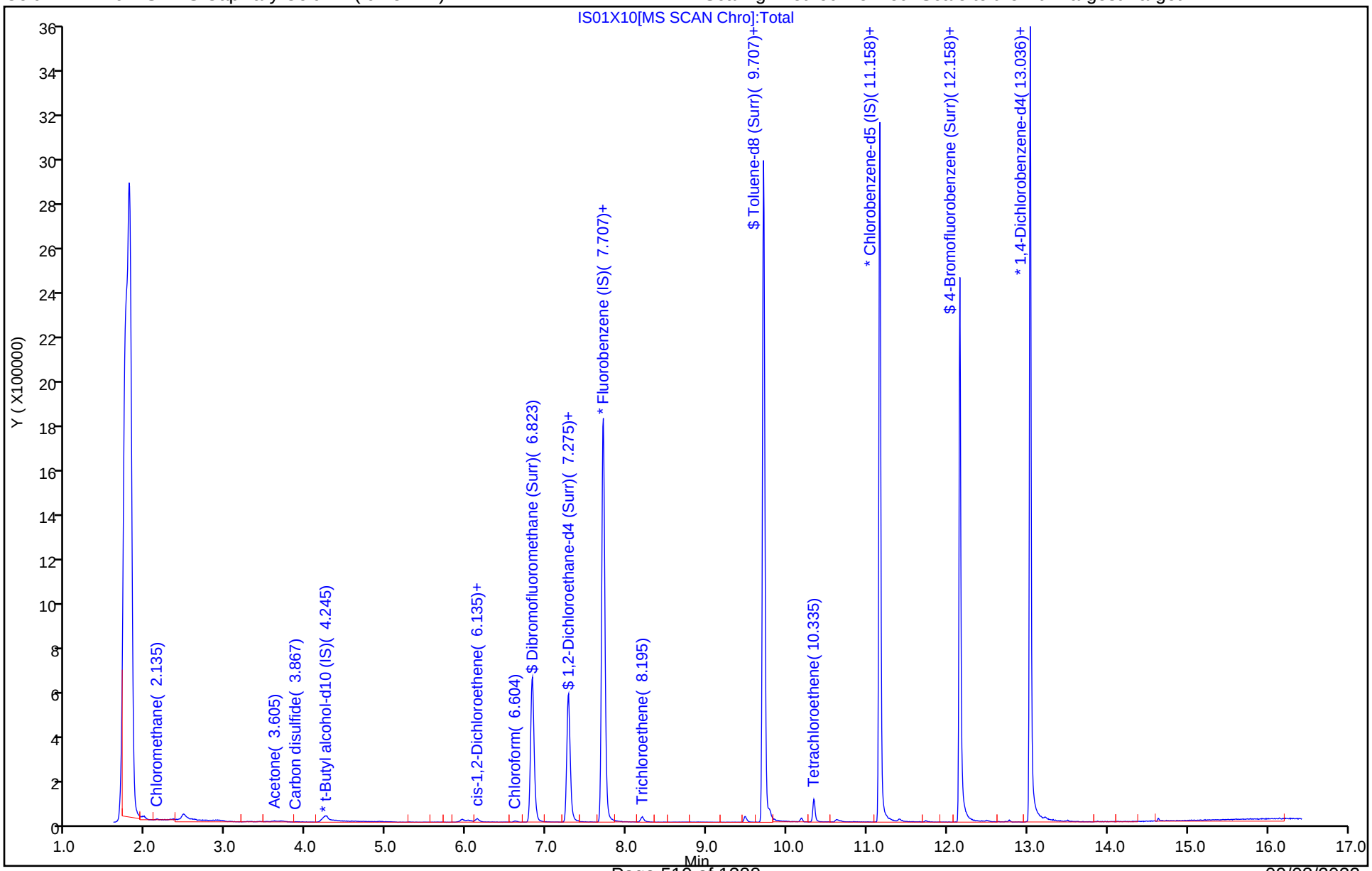
Report Date: 02-Sep-2022 10:38:31 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X10.D

Injection Date:	01-Sep-2022 15:05:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-12	Lab Sample ID:	410-95715-12	Worklist Smp#:	11
Client ID:	HD-COD-SW-29-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X10.D				
Lims ID:	410-95715-A-12				
Client ID:	HD-COD-SW-29-0/1-0				
Sample Type:	Client				
Inject. Date:	01-Sep-2022 15:05:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065465-011				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Sep-2022 10:38:30	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1620				

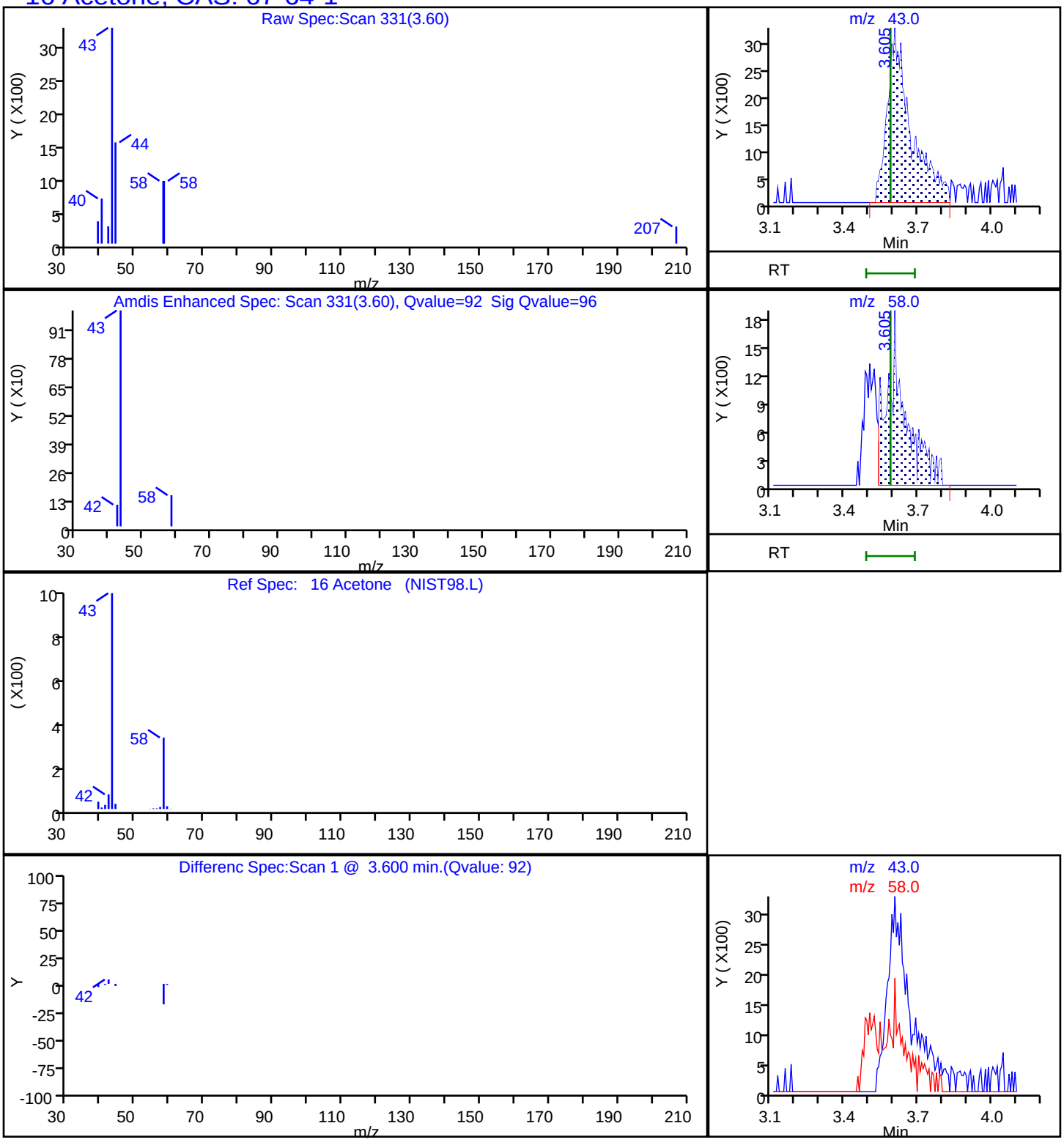
First Level Reviewer: innoonk Date: 02-Sep-2022 10:38:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	9.85	98.54
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.87
$ 78 Toluene-d8 (Surr)	10.0	10.1	100.56
$ 120 4-Bromofluorobenzene (Surr)	10.0	8.94	89.39

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X10.D				
Injection Date:	01-Sep-2022 15:05:30	Instrument ID:	19930		
Lims ID:	410-95715-A-12	Lab Sample ID:	410-95715-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

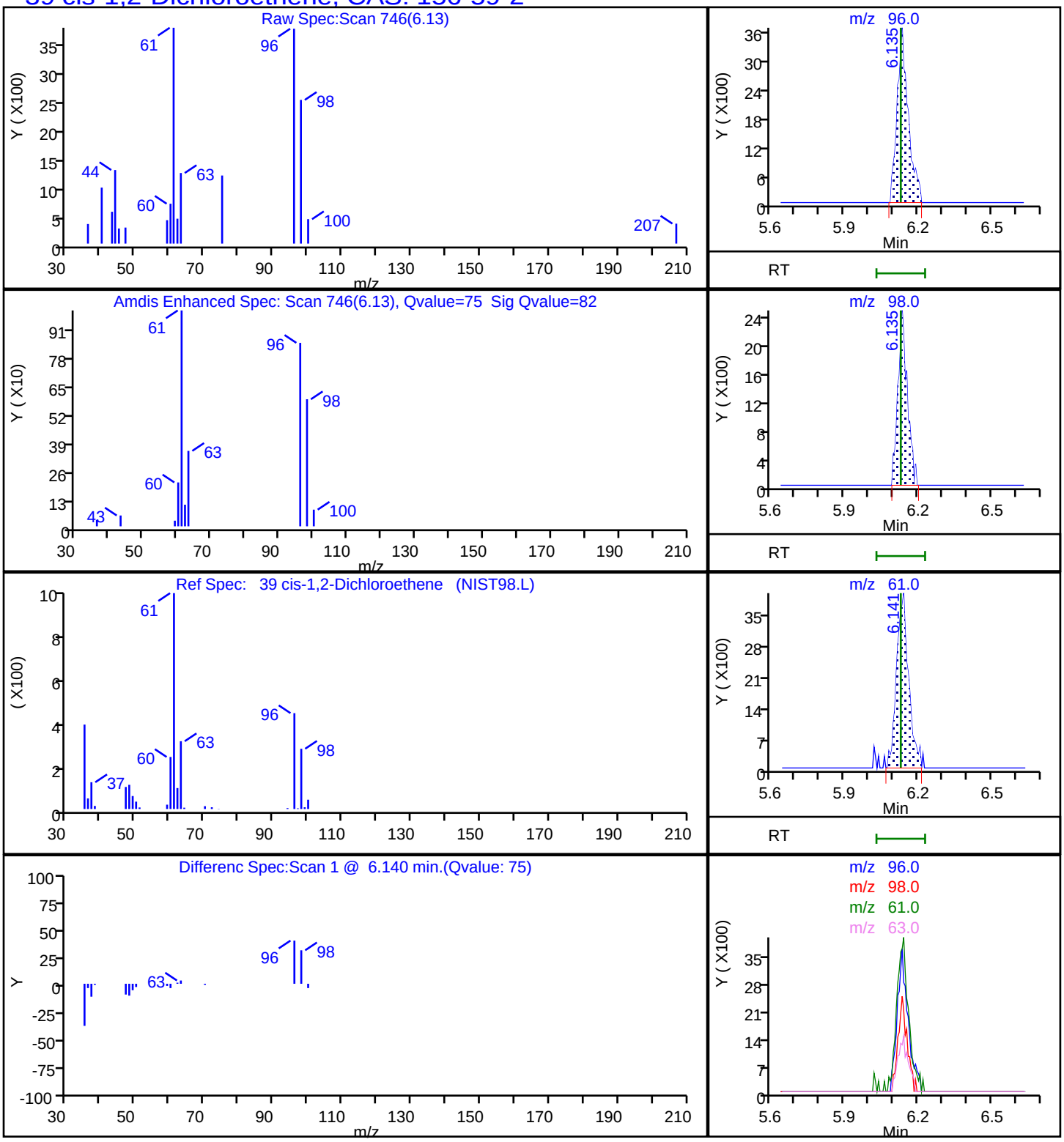


Report Date: 02-Sep-2022 10:38:31 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X10.D				
Injection Date:	01-Sep-2022 15:05:30	Instrument ID:	19930		
Lims ID:	410-95715-A-12	Lab Sample ID:	410-95715-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Report Date: 02-Sep-2022 10:38:31 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X10.D

Injection Date: 01-Sep-2022 15:05:30 Instrument ID: 19930

Lims ID: 410-95715-A-12 Lab Sample ID: 410-95715-12

Client ID: HD-COD-SW-29-0/1-0

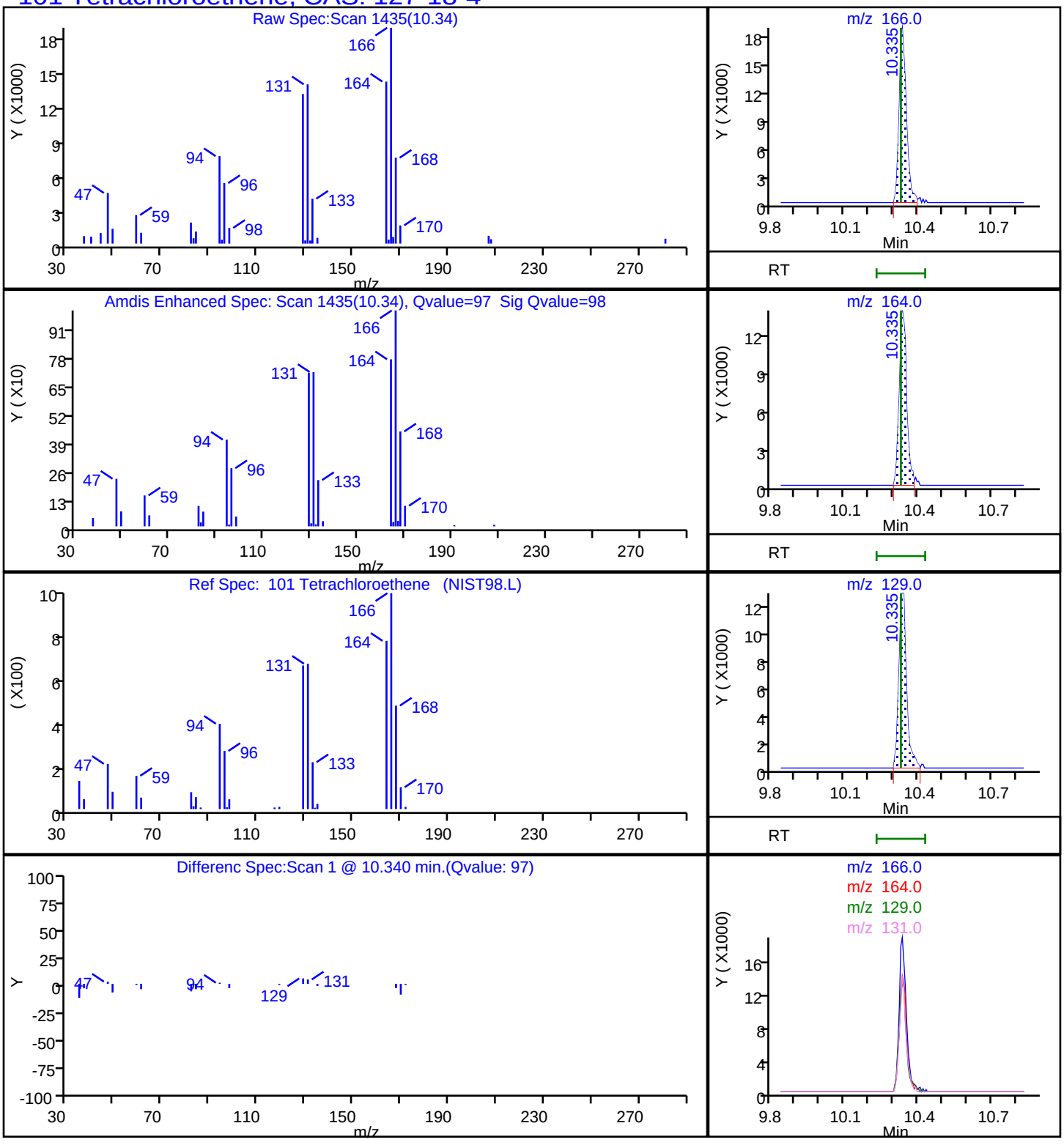
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 11

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

101 Tetrachloroethene, CAS: 127-18-4

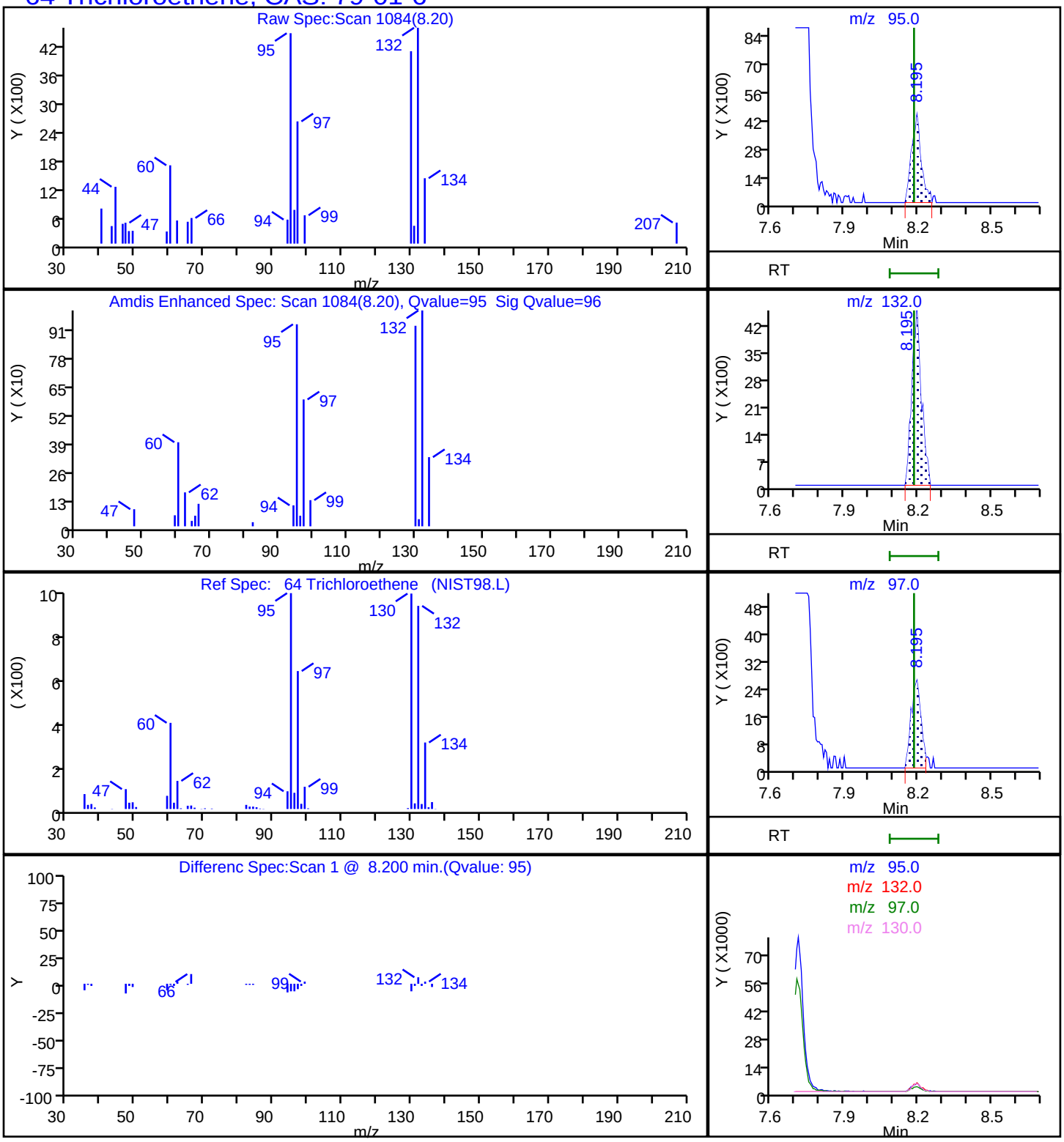


Report Date: 02-Sep-2022 10:38:31 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X10.D				
Injection Date:	01-Sep-2022 15:05:30	Instrument ID:	19930		
Lims ID:	410-95715-A-12	Lab Sample ID:	410-95715-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

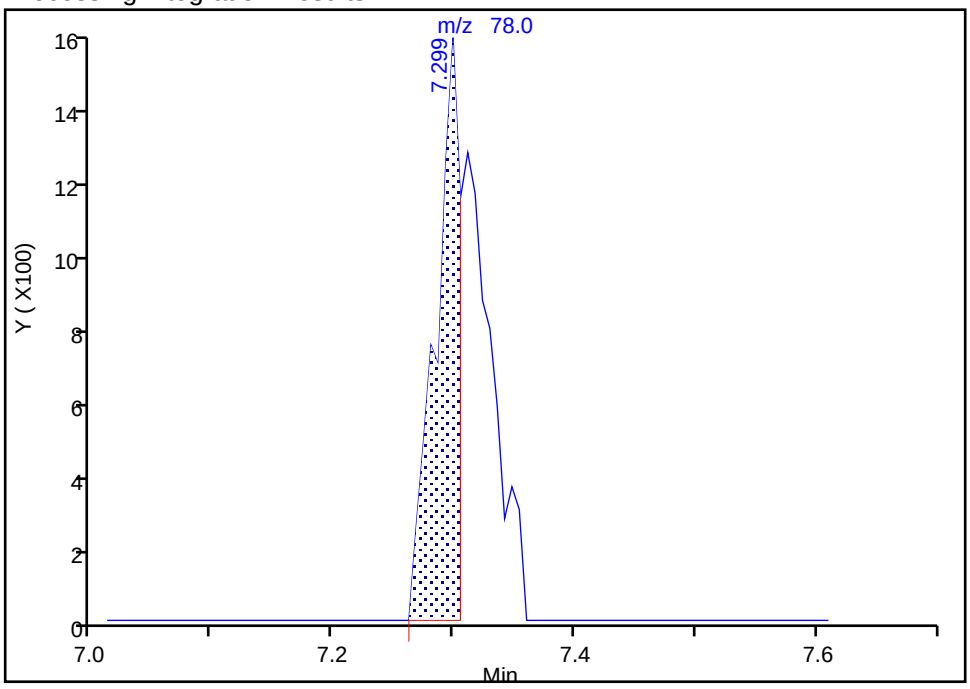
Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X10.D				
Injection Date:	01-Sep-2022 15:05:30	Instrument ID:	19930		
Lims ID:	410-95715-A-12	Lab Sample ID:	410-95715-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

57 Benzene, CAS: 71-43-2

Signal: 1

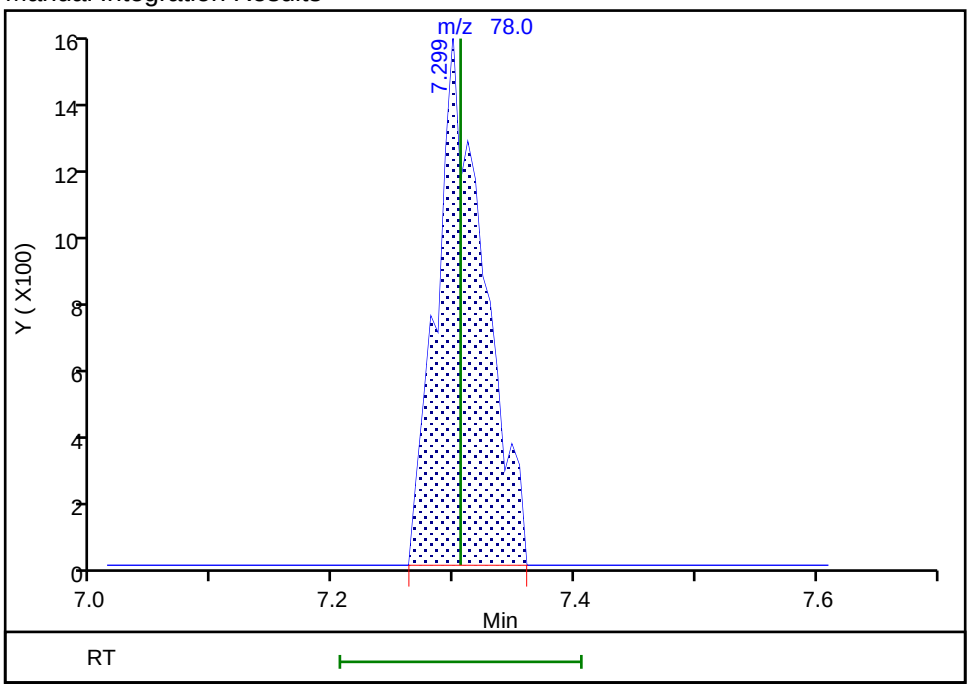
Processing Integration Results

RT: 7.30
Area: 2215
Amount: 0.007228
Amount Units: ug/l



Manual Integration Results

RT: 7.30
Area: 4236
Amount: 0.013824
Amount Units: ug/l



Reviewer: innoonk, 02-Sep-2022 10:38:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-QC1-0-1-1 Lab Sample ID: 410-95715-13

Matrix: Water Lab File ID: IS01X11.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:20

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 15:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.0	^c *- cn	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.4		0.50	0.10
75-35-4	1,1-Dichloroethene	0.44	J ^c *- cn	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	^c cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND	^c cn	0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.34	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.1		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-QC1-0-1-1 Lab Sample ID: 410-95715-13

Matrix: Water Lab File ID: IS01X11.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:20

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 15:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	5.9		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	112		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D
Lims ID: 410-95715-A-13
Client ID: HD-QC1-0-1-1
Sample Type: Client
Inject. Date: 01-Sep-2022 15:26:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065465-012
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Sep-2022 10:40:34 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1620

First Level Reviewer: innoonk Date: 02-Sep-2022 10:40:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.148				ND	
5 Vinyl chloride	62		2.251				ND	U
7 Bromomethane	94		2.599				ND	7
8 Chloroethane	64		2.690				ND	7
15 1,1-Dichloroethene	96	3.568	3.568	0.000	97	25674	0.4371	
16 Acetone	43	3.617	3.586	0.031	20	5198	0.5386	
20 Carbon disulfide	76		3.879				ND	7
25 Methylene Chloride	84		4.239				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.245	4.245	0.000	25	174940	50.0	
29 Methyl tert-butyl ether	73		4.641				ND	7
30 trans-1,2-Dichloroethene	96	4.653	4.653	0.000	25	2758	0.0423	M
32 1,1-Dichloroethane	63	5.305	5.306	-0.001	96	163170	1.37	
38 2-Butanone (MEK)	43		6.092				ND	
39 cis-1,2-Dichloroethene	96	6.135	6.129	0.006	79	298084	4.09	
46 Chlorobromomethane	128		6.458				ND	
48 Chloroform	83	6.604	6.610	-0.006	93	41007	0.3424	
$ 49 Dibromofluoromethane (Surr)	113	6.823	6.818	0.005	94	653227	11.2	
50 1,1,1-Trichloroethane	97	6.836	6.830	0.006	99	644662	6.01	
54 Carbon tetrachloride	117		7.049				ND	7
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	-0.001	64	132779	11.1	
57 Benzene	78		7.305				ND	7
58 1,2-Dichloroethane	62		7.372				ND	
* 61 Fluorobenzene (IS)	96	7.707	7.708	-0.001	99	2316796	10.0	
64 Trichloroethene	95	8.183	8.183	0.000	98	439941	5.89	
66 1,2-Dichloropropane	63		8.512				ND	
71 Dichlorobromomethane	83		8.854				ND	
76 cis-1,3-Dichloropropene	75		9.396				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2299316	9.46	
79 Toluene	92	9.792	9.780	0.012	98	8981	0.0468	
97 trans-1,3-Dichloropropene	75		10.036				ND	
100 1,1,2-Trichloroethane	97	10.244	10.238	0.006	79	1641	0.0303	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.329	10.329	0.000	97	9203169	100.4	E
103 2-Hexanone	43		10.451				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.731				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1873036	10.0	
109 Chlorobenzene	112		11.183				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	7
113 m-Xylene & p-Xylene	106		11.384				ND	7
114 o-Xylene	106		11.713				ND	7
115 Styrene	104		11.725				ND	
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	92	810684	9.10	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	946307	10.0	

QC Flag Legend

Processing Flags
- E - Exceeded Maximum Amount
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

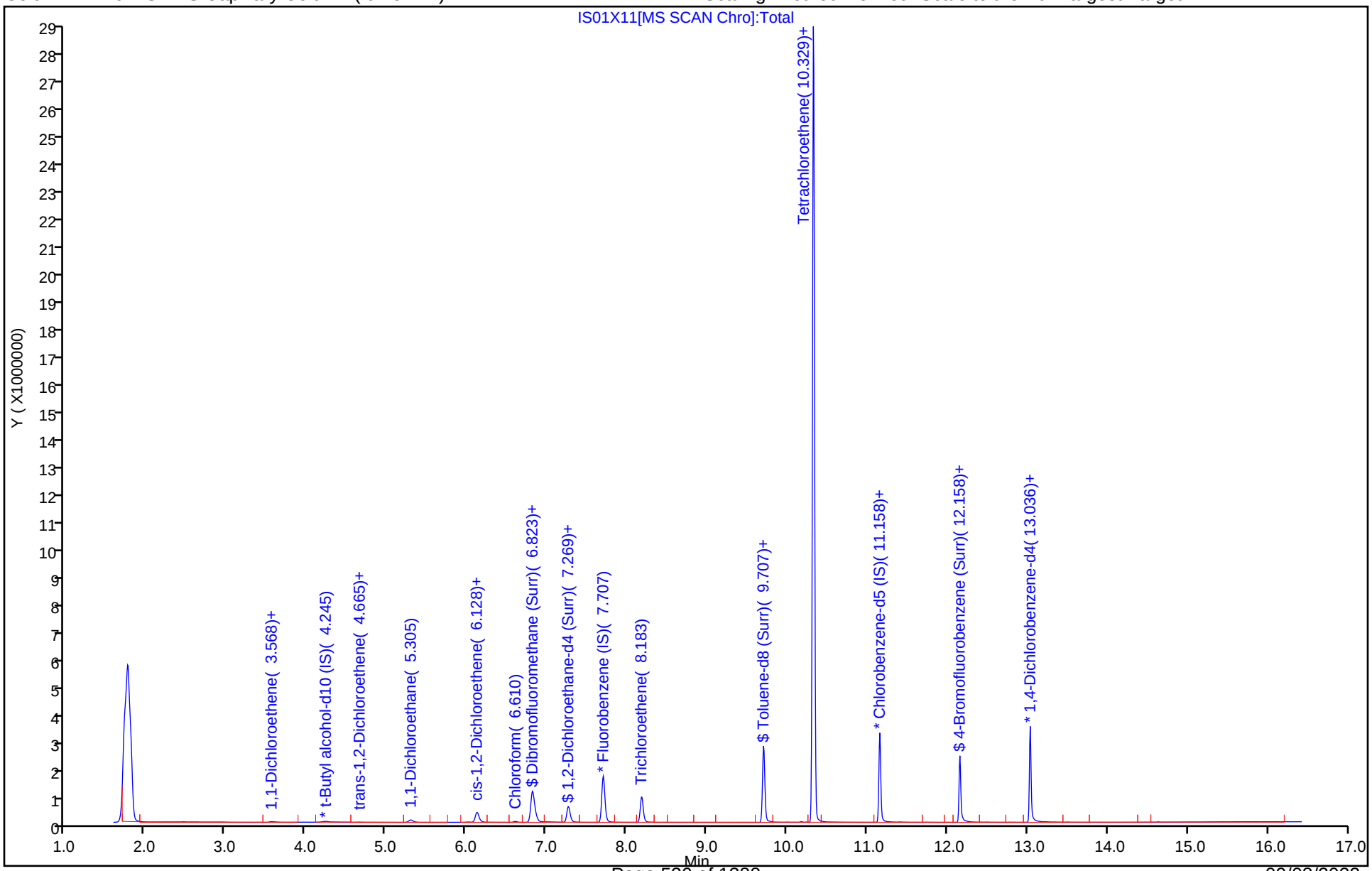
Report Date: 02-Sep-2022 10:40:34 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D

Injection Date:	01-Sep-2022 15:26:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-13	Lab Sample ID:	410-95715-13	Worklist Smp#:	12
Client ID:	HD-QC1-0-1-1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D				
Lims ID:	410-95715-A-13				
Client ID:	HD-QC1-0-1-1				
Sample Type:	Client				
Inject. Date:	01-Sep-2022 15:26:30	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065465-012				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Sep-2022 10:40:34	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1620				

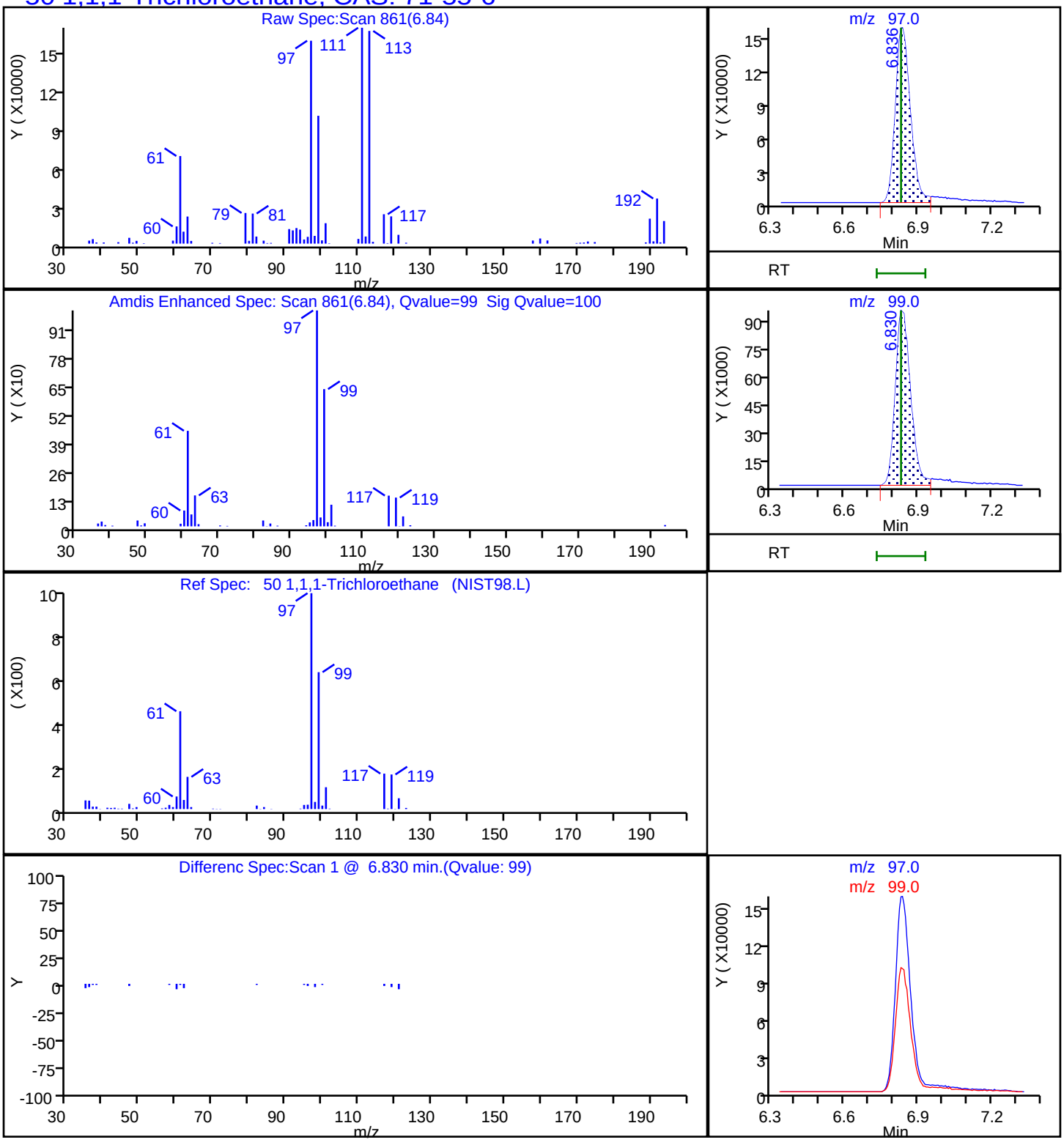
First Level Reviewer: innoonk Date: 02-Sep-2022 10:40:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	11.2	112.31
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	111.14
$ 78 Toluene-d8 (Surr)	10.0	9.46	94.60
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.10	90.96

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D				
Injection Date:	01-Sep-2022 15:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-13	Lab Sample ID:	410-95715-13		
Client ID:	HD-QC1-0-1-1				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

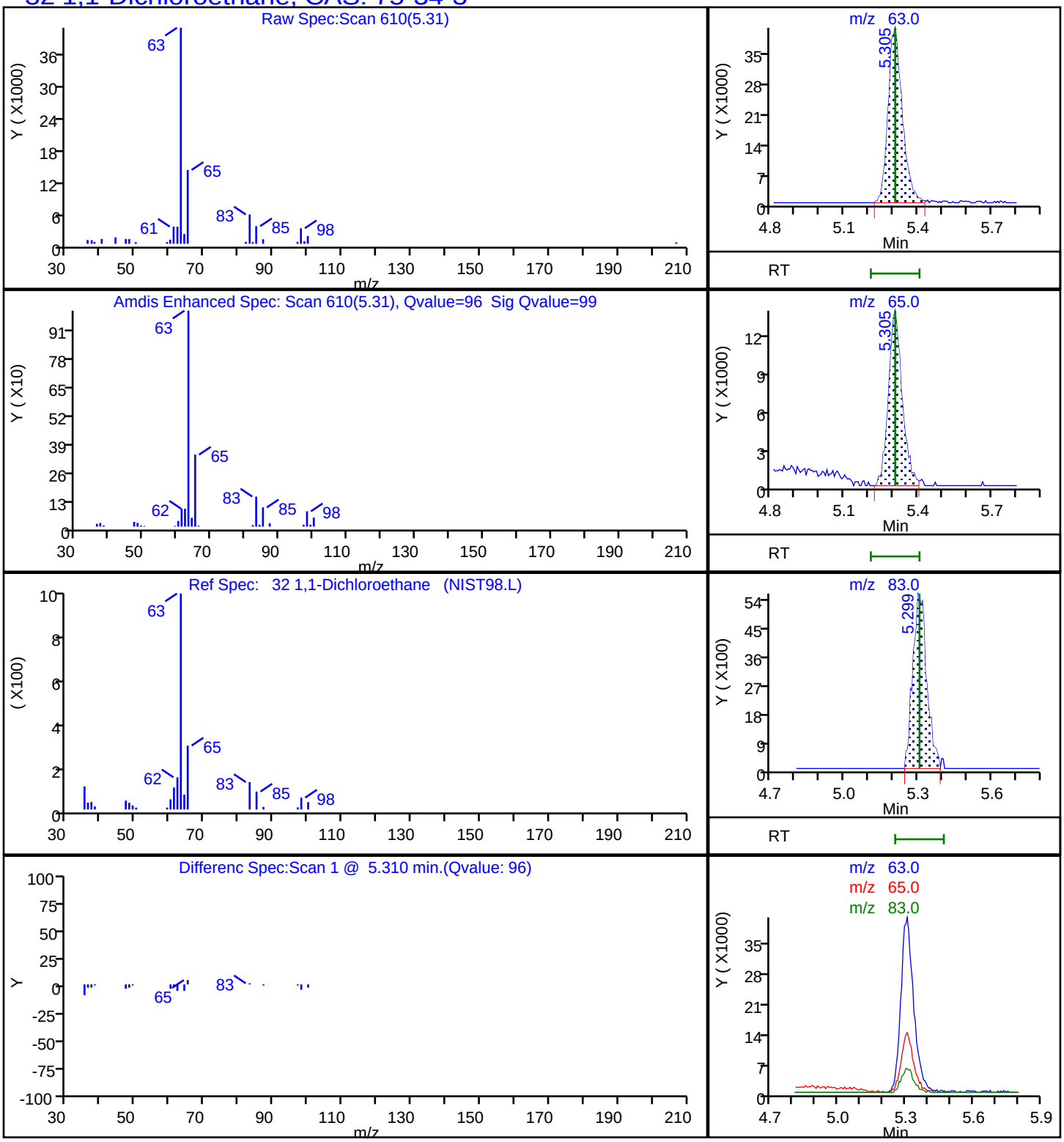
50 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D				
Injection Date:	01-Sep-2022 15:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-13	Lab Sample ID:	410-95715-13		
Client ID:	HD-QC1-0-1-1				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

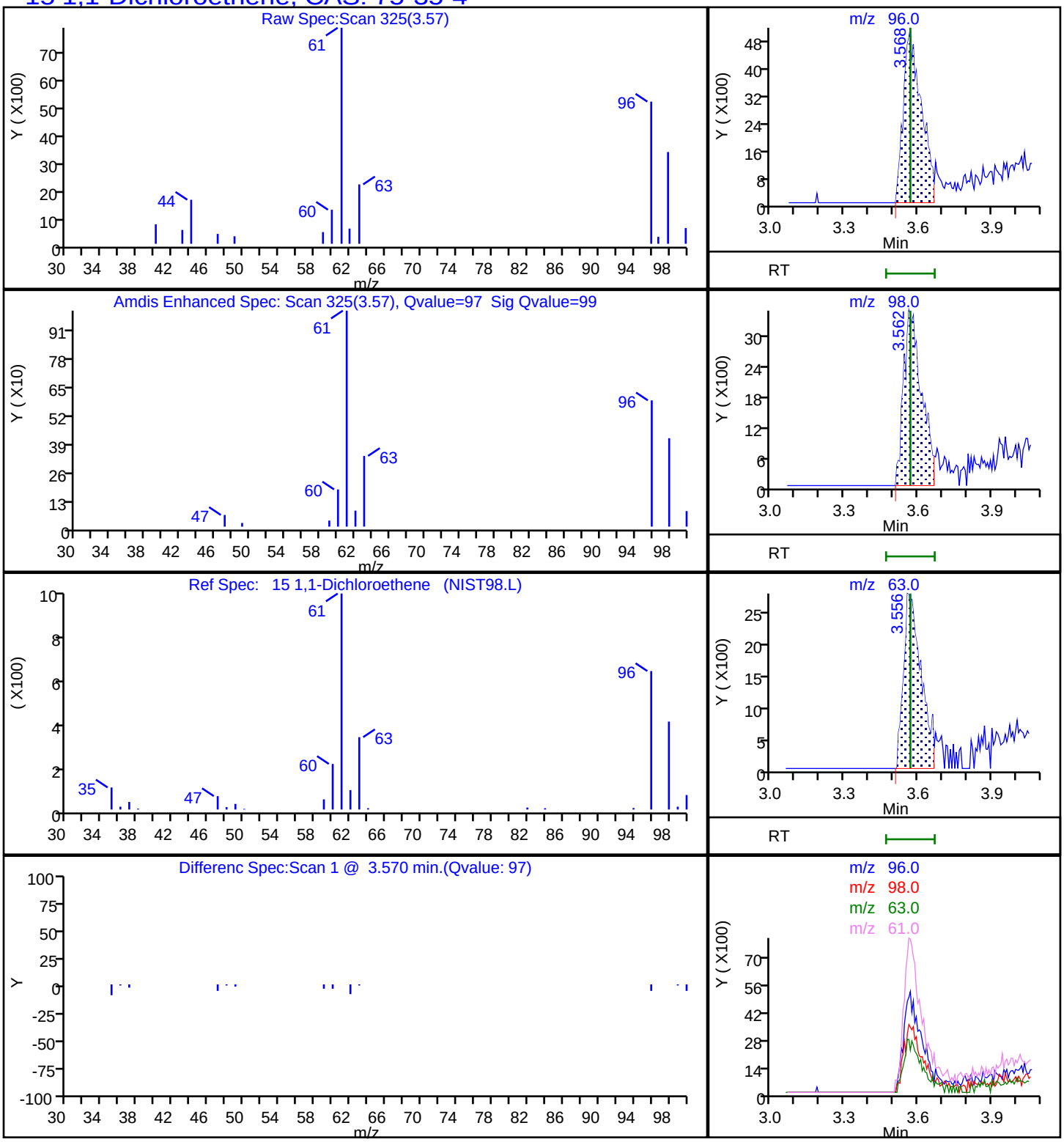
32 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D				
Injection Date:	01-Sep-2022 15:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-13	Lab Sample ID:	410-95715-13		
Client ID:	HD-QC1-0-1-1				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

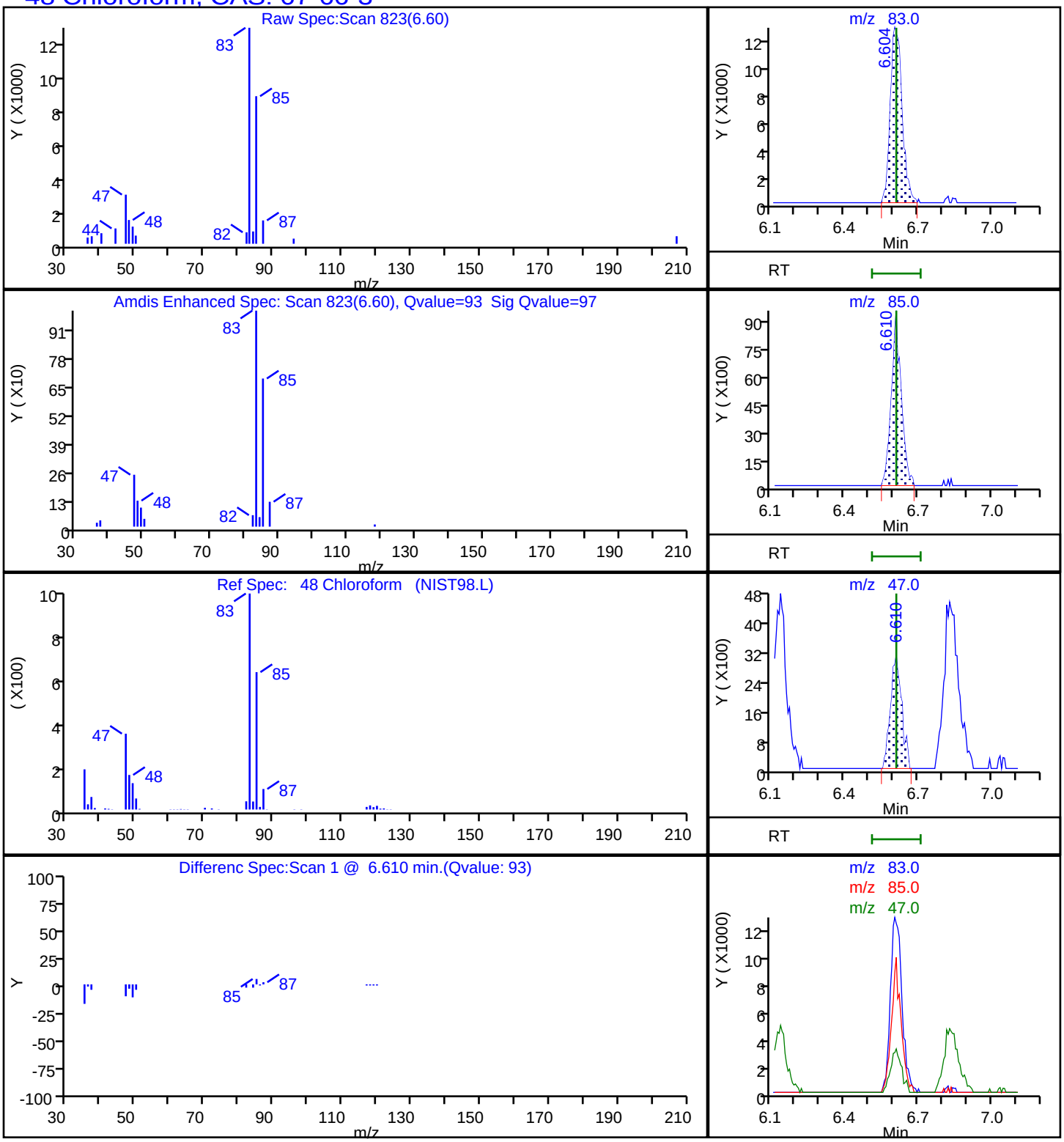
15 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D				
Injection Date:	01-Sep-2022 15:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-13	Lab Sample ID:	410-95715-13		
Client ID:	HD-QC1-0-1-1				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

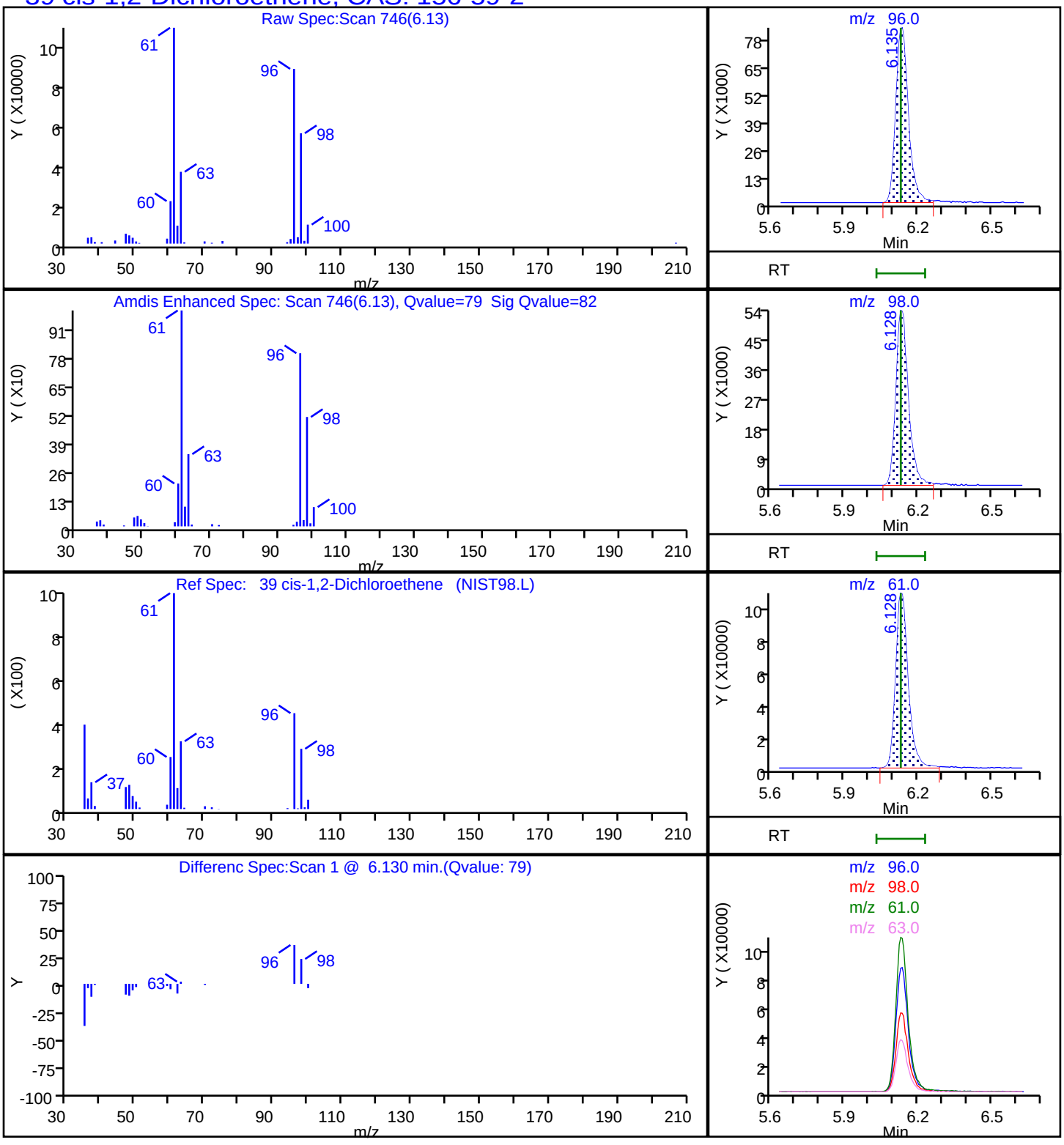
48 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D				
Injection Date:	01-Sep-2022 15:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-13	Lab Sample ID:	410-95715-13		
Client ID:	HD-QC1-0-1-1				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

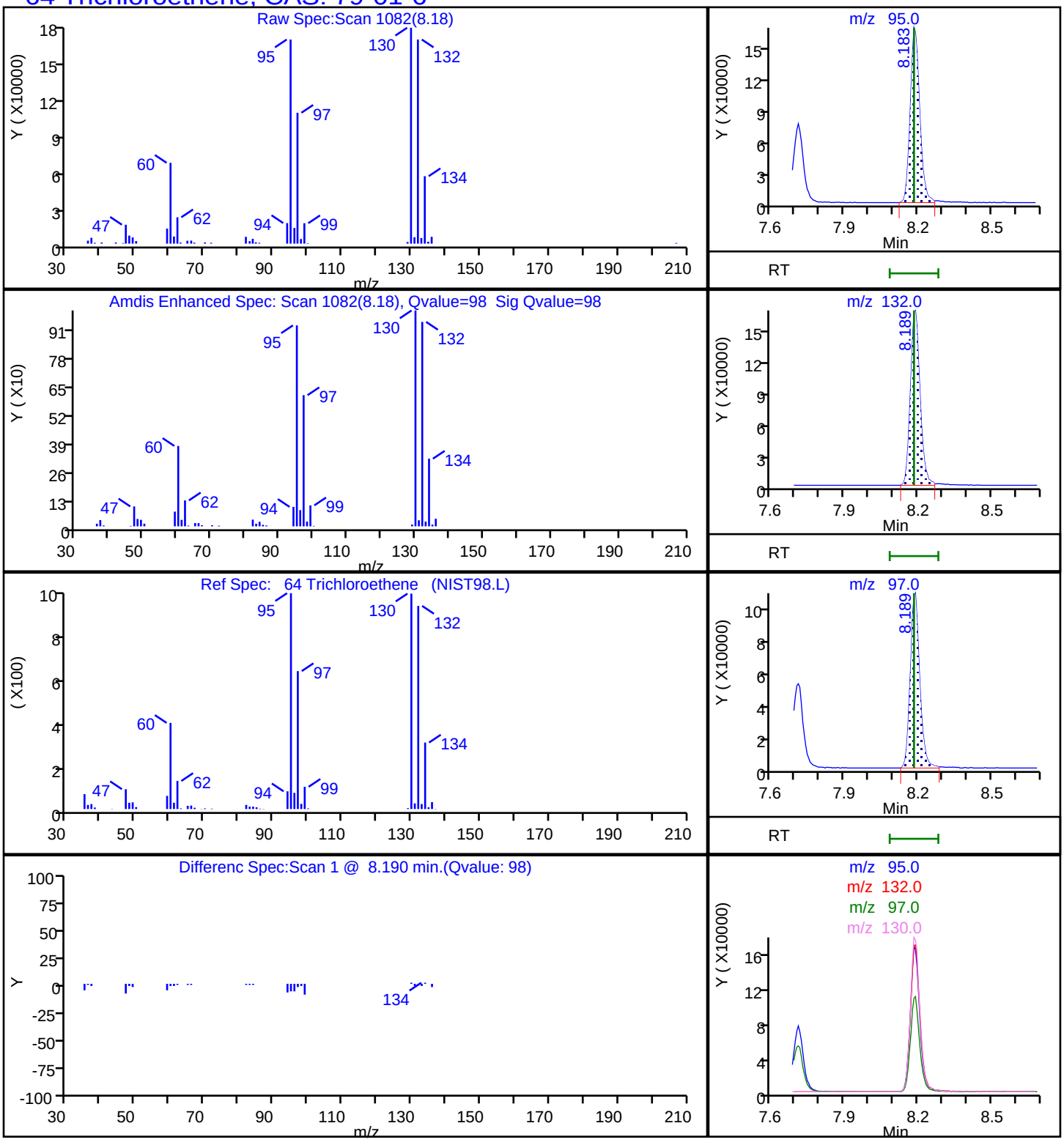


Report Date: 02-Sep-2022 10:40:35 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D				
Injection Date:	01-Sep-2022 15:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-13	Lab Sample ID:	410-95715-13		
Client ID:	HD-QC1-0-1-1				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

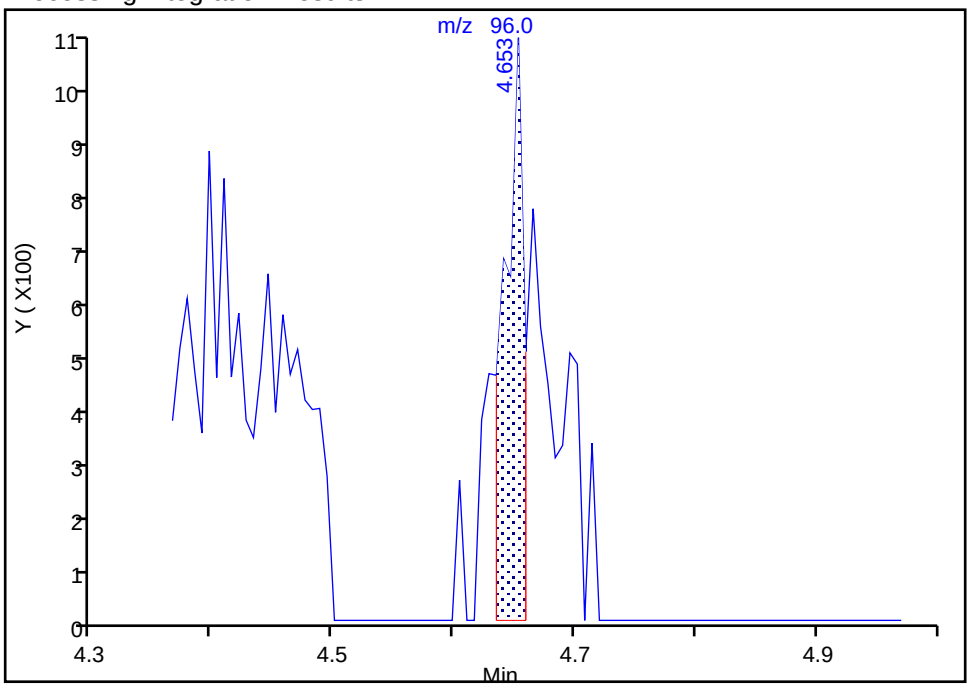
Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D				
Injection Date:	01-Sep-2022 15:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-13	Lab Sample ID:	410-95715-13		
Client ID:	HD-QC1-0-1-1				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

30 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

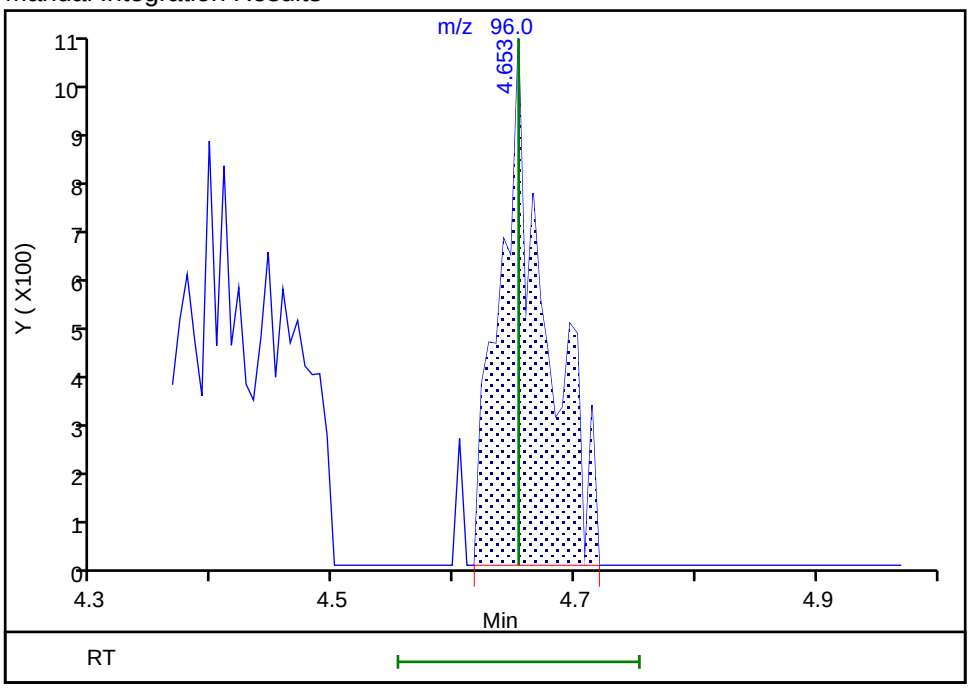
Processing Integration Results

RT: 4.65
Area: 1173
Amount: 0.018004
Amount Units: ug/l



Manual Integration Results

RT: 4.65
Area: 2758
Amount: 0.042332
Amount Units: ug/l



Reviewer: innoonk, 02-Sep-2022 10:39:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

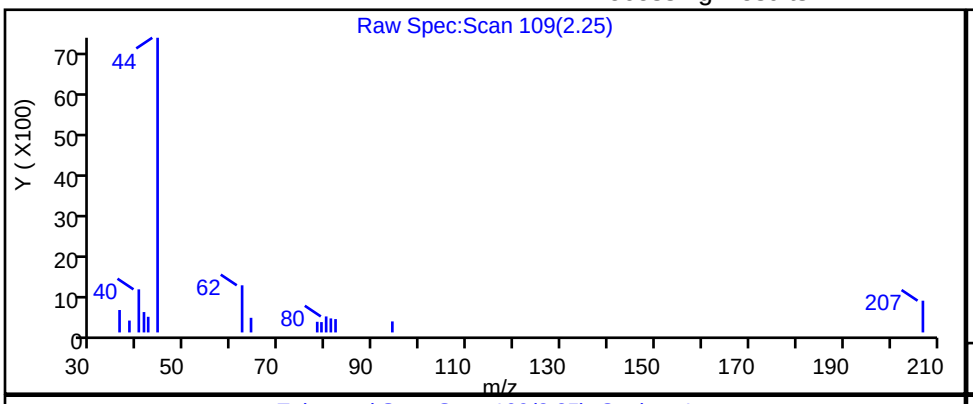
User Disabled Compound Report

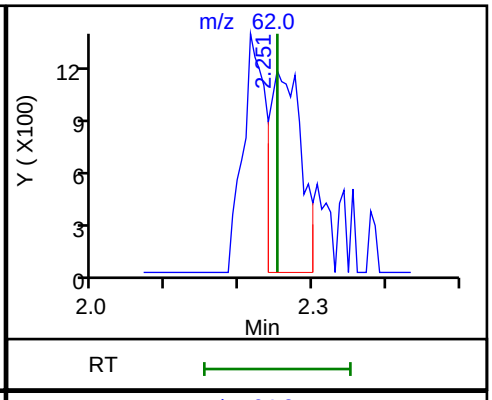
Eurofins Lancaster Laboratories Environment Testing, LLC

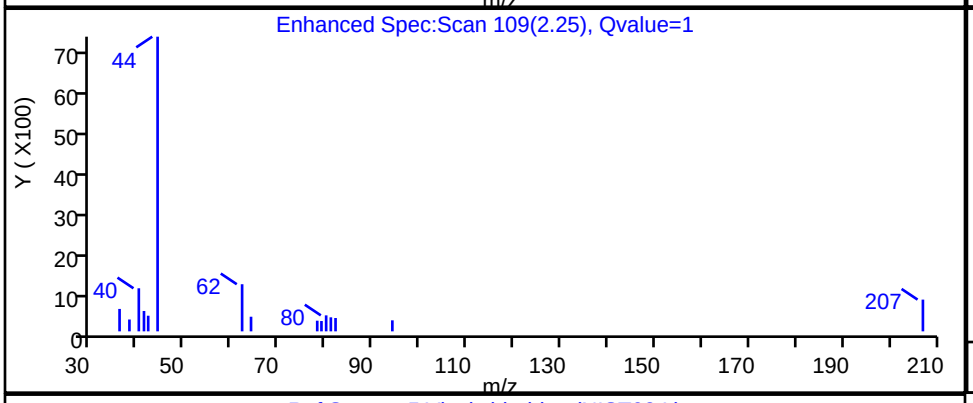
Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X11.D				
Injection Date:	01-Sep-2022 15:26:30	Instrument ID:	19930		
Lims ID:	410-95715-A-13	Lab Sample ID:	410-95715-13		
Client ID:	HD-QC1-0-1-1				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

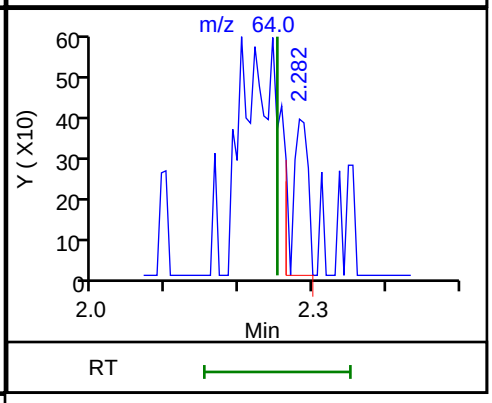
5 Vinyl chloride, CAS: 75-01-4

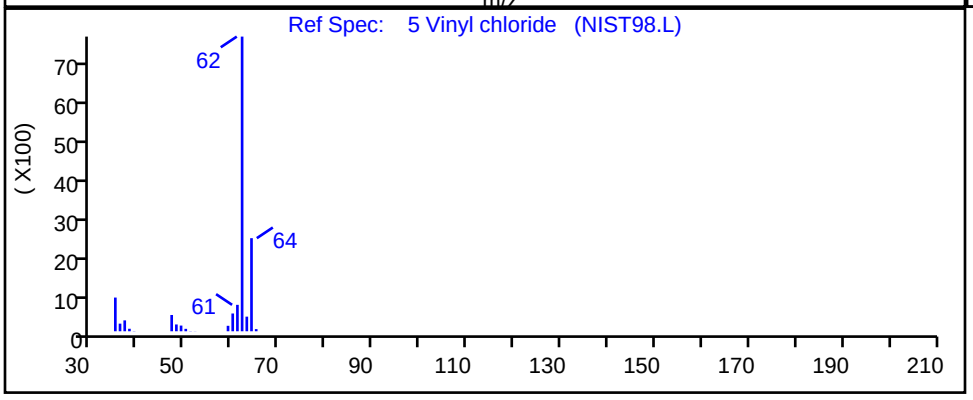
Processing Results











RT	Mass	Response	Amount
2.25	62.00	3543	0.044401
2.28	64.00	591	

Reviewer: innoonk, 02-Sep-2022 10:38:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-QC1-0-1-1 DL Lab Sample ID: 410-95715-13 DL

Matrix: Water Lab File ID: CS05X30.D

Analysis Method: 8260D Date Collected: 08/25/2022 10:20

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 21:19

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292752 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	79		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X30.D
Lims ID: 410-95715-B-13 DL
Client ID: HD-QC1-0-1-1
Sample Type: Client
Inject. Date: 05-Sep-2022 21:19:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0065639-031
Operator ID: knk41612 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Sep-2022 12:15:45 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: DVW2 Date: 06-Sep-2022 12:09:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.928				ND	
6 Vinyl chloride	62		2.032				ND	
9 Bromomethane	94		2.324				ND	
10 Chloroethane	64		2.391				ND	
19 1,1-Dichloroethene	96	3.129	3.123	0.006	79	2199	0.0540	
20 Acetone	43	3.154	3.153	0.001	41	7128	1.21	
25 Carbon disulfide	76	3.410	3.379	0.031	98	22908	0.1819	M
29 Methylene Chloride	84		3.702				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.739	3.745	-0.006	90	113923	50.0	
33 Methyl tert-butyl ether	73		4.062				ND	7
34 trans-1,2-Dichloroethene	96		4.062				ND	
36 1,1-Dichloroethane	63	4.708	4.708	0.000	94	10347	0.1121	
41 2-Butanone (MEK)	43	5.501	5.537	-0.036	23	5115	0.4272	
42 cis-1,2-Dichloroethene	96	5.562	5.562	0.000	77	20340	0.3702	
47 Chlorobromomethane	128		5.903				ND	
50 Chloroform	83	6.074	6.061	0.013	90	2792	0.0321	a
52 1,1,1-Trichloroethane	97	6.275	6.281	-0.006	40	46725	0.6145	
$ 53 Dibromofluoromethane (Surr)	113	6.281	6.281	0.000	94	439093	10.2	
55 Carbon tetrachloride	117		6.488				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.738	6.744	-0.006	47	90891	10.2	
59 Benzene	78		6.769				ND	
61 1,2-Dichloroethane	62		6.848				ND	
* 64 Fluorobenzene (IS)	96	7.183	7.189	-0.006	99	1850443	10.0	
67 Trichloroethene	95	7.683	7.677	0.006	98	27099	0.4964	
69 1,2-Dichloropropane	63		8.012				ND	
75 Dichlorobromomethane	83		8.372				ND	
79 cis-1,3-Dichloropropene	75		8.945				ND	
81 4-Methyl-2-pentanone (MIBK)	43		9.152				ND	7
$ 82 Toluene-d8 (Surr)	98	9.274	9.280	-0.006	93	1876312	10.0	
83 Toluene	92		9.360				ND	7
84 trans-1,3-Dichloropropene	75		9.658				ND	
86 1,1,2-Trichloroethane	97	9.945	9.872	0.073	36	2854	0.0745	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 Tetrachloroethene	166	9.945	9.951	-0.006	97	509393	7.90	
104 2-Hexanone	43		10.109				ND	7
106 Chlorodibromomethane	129		10.262				ND	
107 Ethylene Dibromide	107		10.378				ND	
* 108 Chlorobenzene-d5 (IS)	117	10.829	10.829	0.000	85	1423047	10.0	
110 Chlorobenzene	112		10.859				ND	
111 1,1,1,2-Tetrachloroethane	131		10.945				ND	
112 Ethylbenzene	91		10.951				ND	7
113 m-Xylene & p-Xylene	106		11.073				ND	7
S 114 Xylenes, Total	106		11.245				ND	7
115 o-Xylene	106		11.414				ND	
116 Styrene	104		11.432				ND	7
117 Bromoform	173		11.585				ND	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	94	681311	9.82	
123 1,1,2,2-Tetrachloroethane	83		11.987				ND	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	816475	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

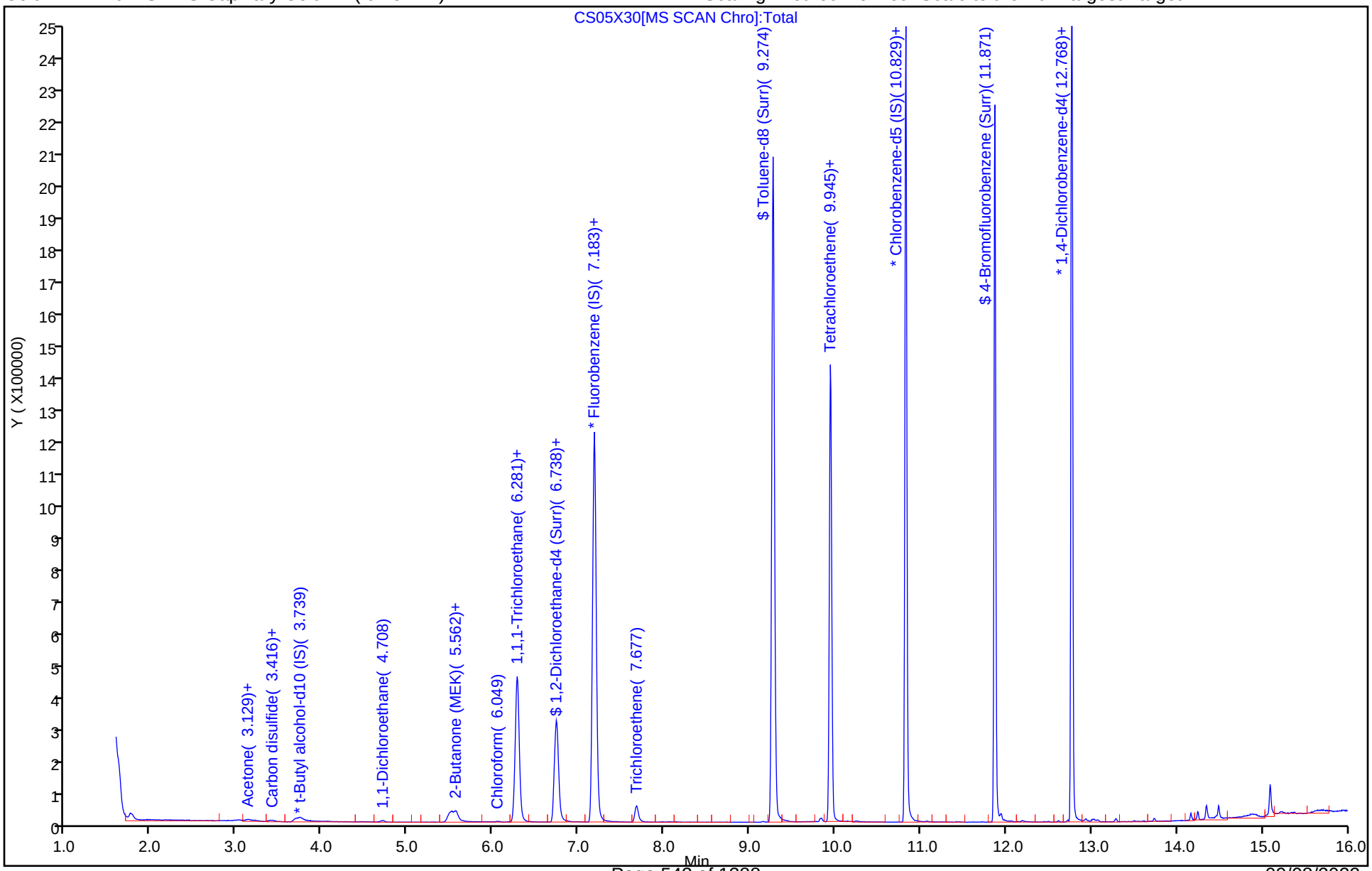
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Sep-2022 12:15:48 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X30.D				
Injection Date:	05-Sep-2022 21:19:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	410-95715-B-13 DL	Lab Sample ID:	410-95715-13	Worklist Smp#:	31
Client ID:	HD-QC1-0-1-1				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	30
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X30.D				
Lims ID:	410-95715-B-13 DL				
Client ID:	HD-QC1-0-1-1				
Sample Type:	Client				
Inject. Date:	05-Sep-2022 21:19:30	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Sample Info:	410-0065639-031				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Sep-2022 12:15:45	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1644				

First Level Reviewer: DVW2 Date: 06-Sep-2022 12:09:13

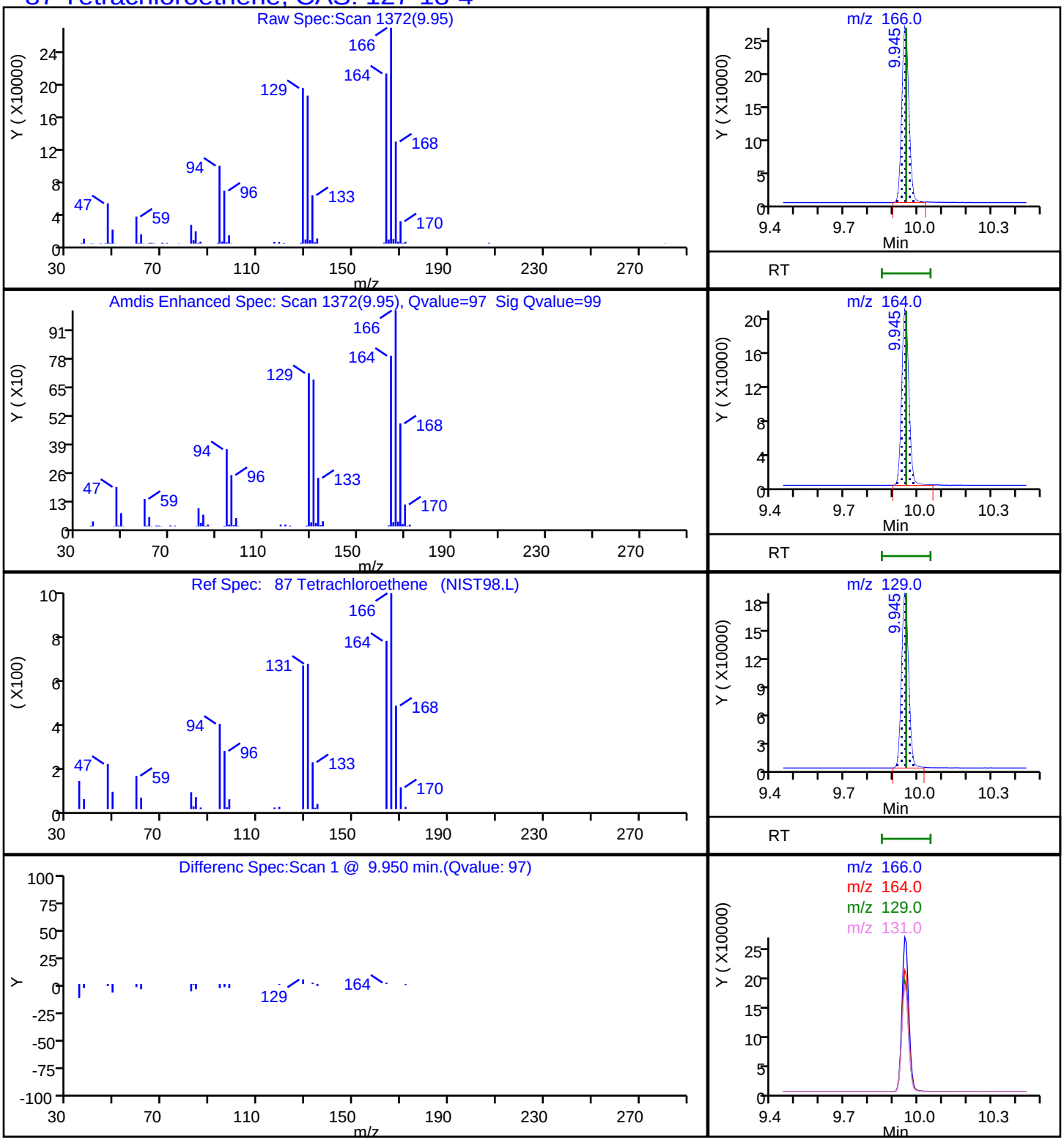
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.2	101.54
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.23
$ 82 Toluene-d8 (Surr)	10.0	10.0	100.06
$ 121 4-Bromofluorobenzene (Surr)	10.0	9.82	98.18

Report Date: 06-Sep-2022 12:15:49 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X30.D				
Injection Date:	05-Sep-2022 21:19:30	Instrument ID:	10193		
Lims ID:	410-95715-B-13 DL	Lab Sample ID:	410-95715-13		
Client ID:	HD-QC1-0-1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

87 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-QC1-0-1-2 Lab Sample ID: 410-95715-14

Matrix: Water Lab File ID: IS01X08.D

Analysis Method: 8260D Date Collected: 08/25/2022 00:00

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 14:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND	^c *-cn	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND	^c *-cn	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	^c cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND	^c cn	0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-QC1-0-1-2 Lab Sample ID: 410-95715-14

Matrix: Water Lab File ID: IS01X08.D

Analysis Method: 8260D Date Collected: 08/25/2022 00:00

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 14:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X08.D
Lims ID: 410-95715-A-14
Client ID: HD-QC1-0-1-2
Sample Type: Client
Inject. Date: 01-Sep-2022 14:22:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065465-009
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 20:13:24 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1620

First Level Reviewer: innoonk Date: 02-Sep-2022 10:35:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.148				ND	7
5 Vinyl chloride	62		2.251				ND	
7 Bromomethane	94		2.599				ND	7
8 Chloroethane	64		2.690				ND	
15 1,1-Dichloroethene	96		3.568				ND	
16 Acetone	43	3.617	3.586	0.031	64	9891	0.9230	
20 Carbon disulfide	76		3.879				ND	
25 Methylene Chloride	84		4.239				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.245	4.245	0.000	24	194238	50.0	
29 Methyl tert-butyl ether	73		4.641				ND	
30 trans-1,2-Dichloroethene	96		4.653				ND	
32 1,1-Dichloroethane	63		5.306				ND	
38 2-Butanone (MEK)	43		6.092				ND	7
39 cis-1,2-Dichloroethene	96		6.129				ND	
46 Chlorobromomethane	128		6.458				ND	
48 Chloroform	83		6.610				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.812	6.818	-0.006	94	669069	10.6	
50 1,1,1-Trichloroethane	97		6.830				ND	
54 Carbon tetrachloride	117		7.049				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	56	137634	10.6	
57 Benzene	78		7.305				ND	
58 1,2-Dichloroethane	62		7.372				ND	
* 61 Fluorobenzene (IS)	96	7.702	7.708	-0.006	99	2520601	10.0	
64 Trichloroethene	95		8.183				ND	
66 1,2-Dichloropropane	63		8.512				ND	
71 Dichlorobromomethane	83		8.854				ND	
76 cis-1,3-Dichloropropene	75		9.396				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	2481179	10.4	
79 Toluene	92		9.780				ND	7
97 trans-1,3-Dichloropropene	75		10.036				ND	
100 1,1,2-Trichloroethane	97		10.238				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166		10.329				ND	
103 2-Hexanone	43		10.451				ND	
105 Chlorodibromomethane	129		10.616				ND	
106 Ethylene Dibromide	107		10.731				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1835343	10.0	
109 Chlorobenzene	112		11.183				ND	
S 110 Xylenes, Total	106		11.245				ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262				ND	
112 Ethylbenzene	91		11.268				ND	
113 m-Xylene & p-Xylene	106		11.384				ND	
114 o-Xylene	106		11.713				ND	
115 Styrene	104		11.725				ND	
116 Bromoform	173		11.884				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	94	777274	8.90	
121 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	937947	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

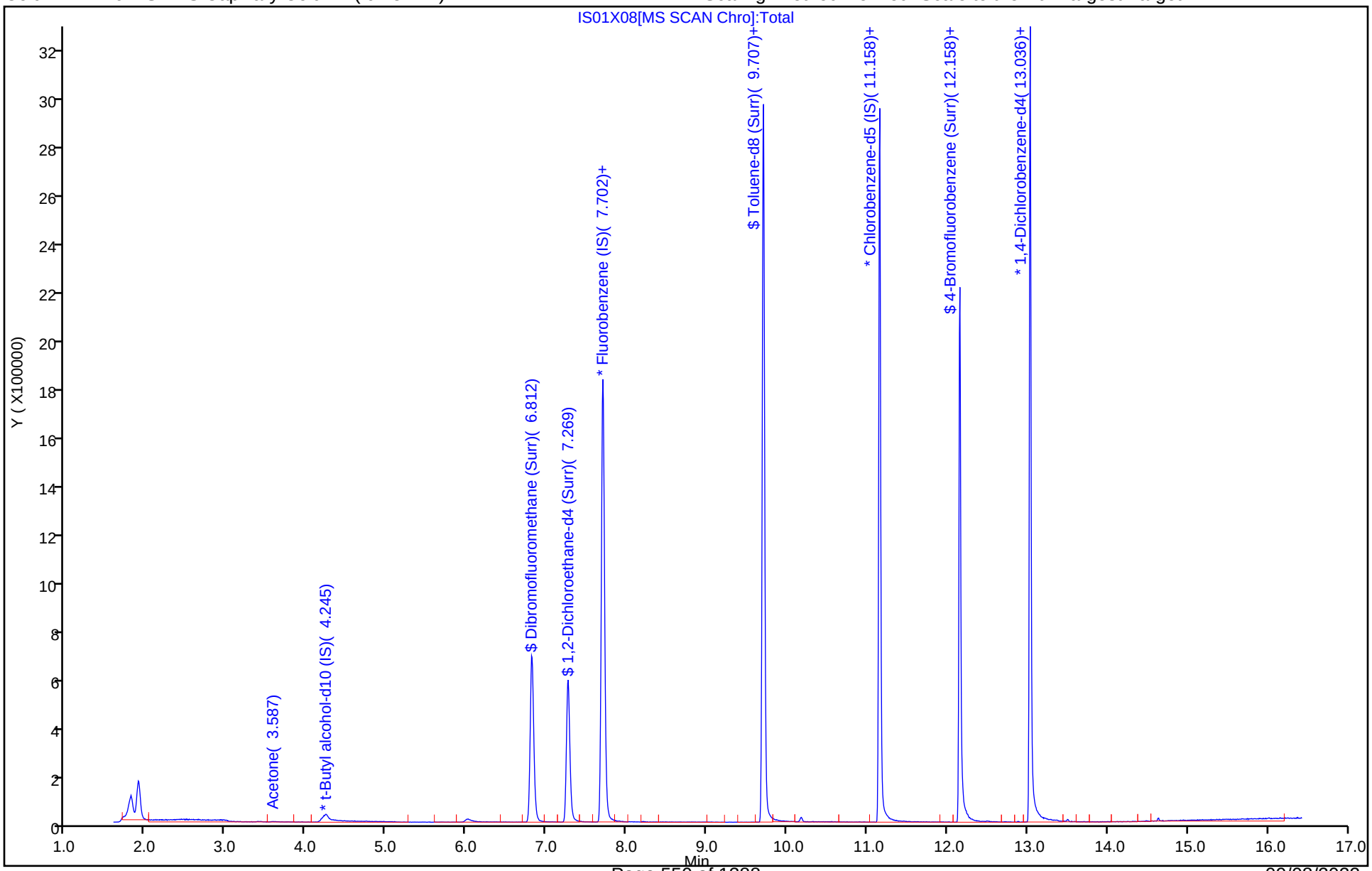
Report Date: 02-Sep-2022 10:35:54 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X08.D

Injection Date:	01-Sep-2022 14:22:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-14	Lab Sample ID:	410-95715-14	Worklist Smp#:	9
Client ID:	HD-QC1-0-1-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X08.D				
Lims ID:	410-95715-A-14				
Client ID:	HD-QC1-0-1-2				
Sample Type:	Client				
Inject. Date:	01-Sep-2022 14:22:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065465-009				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 20:13:24	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1620				

First Level Reviewer: innoonk Date: 02-Sep-2022 10:35:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	10.6	105.73
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.89
$ 78 Toluene-d8 (Surr)	10.0	10.4	104.18
$ 120 4-Bromofluorobenzene (Surr)	10.0	8.90	89.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 16:29 Calibration End Date: 08/22/2022 18:43 Calibration ID: 41931

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-288300/3	CG22X02.D
Level 2	IC 410-288300/4	CG22X03.D
Level 3	IC 410-288300/5	CG22X04.D
Level 4	IC 410-288300/6	CG22X05.D
Level 5	IC 410-288300/7	CG22X06.D
Level 6	IC 410-288300/8	CG22X07.D
Level 7	IC 410-288300/9	CG22X08.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.4498 0.3784	0.4403 0.3636	0.4243	0.3701	0.3724	Ave		0.3999				9.2		20.0			
Methoxymethane	0.5726 0.3358	0.3797 0.2975	0.3371	0.3216	0.3257	Lin2	0.0515	0.3021							0.9950		0.9900
Acetonitrile	0.0607 0.0162	0.0380 0.0174	0.0273	0.0217	0.0181	Lin1	0.0473	0.0165							0.9970		0.9900
Vinyl acetate	0.7690 0.3904	0.5378 0.3857	0.4724	0.3921	0.4234	Lin	0.0887	0.3826							1.0000		0.9900
Ethyl acetate	0.3141 0.1834	0.2435 0.1671	0.2055	0.1744	0.1767	Lin2	0.0293	0.1722							0.9960		0.9900
2-Chloroethyl vinyl ether	0.1269 0.1374	0.1388 0.1385	0.1439	0.1228	0.1322	Ave		0.1344				5.5		20.0			
cis-1,4-Dichloro-2-butene	0.0976 0.1044	0.1009 0.1074	0.0998	0.0861	0.0993	Ave		0.0994				6.8		20.0			
Cyclohexanone	0.2694 0.3968	0.4468 0.4025	0.3816	0.3510	0.3727	Ave		0.3744				14.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 16:29 Calibration End Date: 08/22/2022 18:43 Calibration ID: 41931

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-288300/3	CG22X02.D
Level 2	IC 410-288300/4	CG22X03.D
Level 3	IC 410-288300/5	CG22X04.D
Level 4	IC 410-288300/6	CG22X05.D
Level 5	IC 410-288300/7	CG22X06.D
Level 6	IC 410-288300/8	CG22X07.D
Level 7	IC 410-288300/9	CG22X08.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorodifluoromethane	FB	Ave	18621 766084	45157 1831067	86518	149552	373291	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methoxymethane	FB	Lin2	23702 679826	38943 1498290	68735	129948	326435	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	FB	Lin1	12557 164240	19506 436874	27836	43831	90497	1.00 50.0	2.50 125	5.00	10.0	25.0
Vinyl acetate	FB	Lin	31833 790383	55154 1942117	96327	158438	424449	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Lin2	13001 371204	24973 841344	41896	70469	177159	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Ave	5255 278108	14240 697444	29332	49636	132539	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,4-Dichloro-2-butene	CBZd 5	Ave	6192 324327	15966 835163	31401	53415	153304	0.400 20.0	1.000 50.0	2.00	4.00	10.00
Cyclohexanone	TBAd 10	Ave	7917 563833	31310 1478443	54811	90126	243489	10.0 500	25.0 1250	50.0	100	250

Curve Type Legend

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 16:29 Calibration End Date: 08/22/2022 18:43 Calibration ID: 41931

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-288300/3	CG22X02.D
Level 2	IC 410-288300/4	CG22X03.D
Level 3	IC 410-288300/5	CG22X04.D
Level 4	IC 410-288300/6	CG22X05.D
Level 5	IC 410-288300/7	CG22X06.D
Level 6	IC 410-288300/8	CG22X07.D
Level 7	IC 410-288300/9	CG22X08.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorodifluoromethane	12.5 -9.1	10.1	6.1	-7.4	-6.9	-5.4	50 30	30	30	30	30	30
Methoxymethane	4.3 -2.2	-8.4	-5.5	-2.1	4.4	9.4	50 30	30	30	30	30	30
Acetonitrile	-19.3 2.7	15.6	8.0	2.7	-2.2	-7.5	50 30	30	30	30	30	30
Vinyl acetate	-15.0 -0.1	-5.8	0.3	-9.1	6.0	-0.3	50 30	30	30	30	30	30
Ethyl acetate	-2.7 -3.7	7.4	2.3	-7.2	-0.8	4.8	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-5.5 3.1	3.3	7.1	-8.6	-1.6	2.2	50 30	30	30	30	30	30
cis-1,4-Dichloro-2-butene	-1.8 8.1	1.5	0.5	-13.4	0.0	5.1	50 30	30	30	30	30	30
Cyclohexanone	-28.1 7.5	19.3	1.9	-6.2	-0.5	6.0	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X02.D
Lims ID: IC STD.2 Sm
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Aug-2022 16:29:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-003
Misc. Info.: IC STD.2 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:07 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:43:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.727	1.727	0.000	91	8509	0.2000	0.1970	
3 Chlorodifluoromethane	51	1.770	1.776	-0.006	97	18621	0.2000	0.2250	
4 Dimethyl ether	45	1.812	1.819	-0.007	97	23702	0.2000	0.2086	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.111	2.117	-0.006	34	14304	0.2000	0.2060	
26 Acetonitrile	41	3.519	3.501	0.018	74	12557	1.00	0.8066	
* 30 t-Butyl alcohol-d10 (IS)	65	3.745	3.745	0.000	91	146954	50.0	50.0	
37 Vinyl acetate	43	4.739	4.733	0.006	96	31833	0.2000	0.1700	M
44 Ethyl acetate	43	5.641	5.617	0.024	65	13001	0.2000	0.1946	
62 Isopropyl acetate	43	6.903	6.885	0.018	98	27396	0.2000	0.1965	
* 64 Fluorobenzene (IS)	96	7.196	7.196	0.000	99	2069764	10.0	10.0	
74 n-Propyl acetate	61	8.244	8.214	0.030	98	4806	0.2000	0.2466	
77 2-Chloroethyl vinyl ether	63	8.781	8.762	0.019	91	5255	0.2000	0.1890	
105 n-Butyl acetate	43	10.256	10.250	0.006	98	28952	0.2000	0.1188	M
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1586211	10.0	10.0	
119 cis-1,4-Dichloro-2-butene	88	11.786	11.786	0.000	26	6192	0.3999	0.3929	M
120 Cyclohexanone	55	11.811	11.810	0.001	87	7917	10.0	7.20	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	898252	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

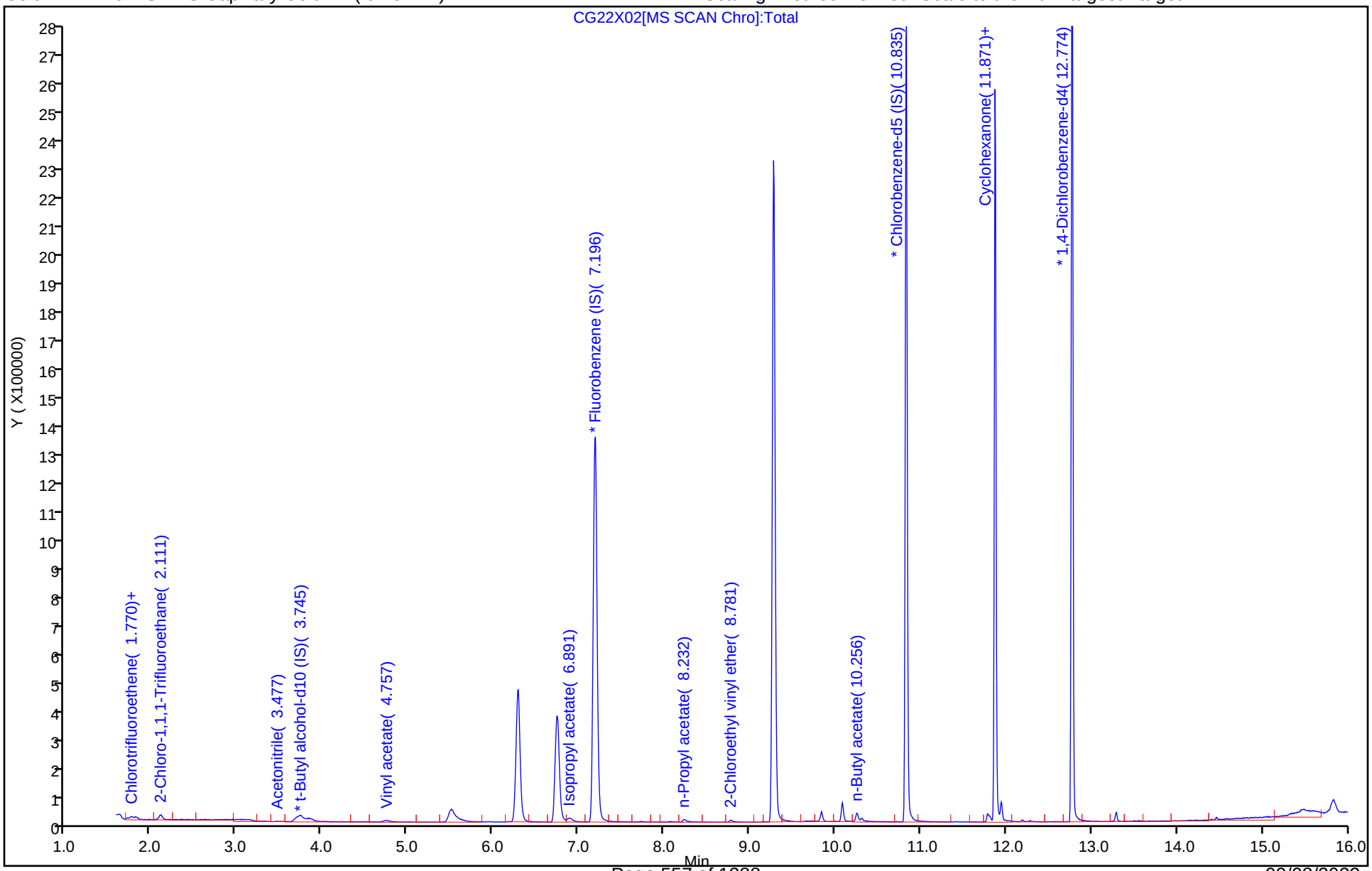
MSV_CCV_V5ACE_00013	Amount Added:	0.20	Units: uL
MSV_V_SMRV4_00045	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00004	Amount Added:	1.60	Units: uL
MSV_HP25_ISO_00007	Amount Added:	1.00	Units: uL
MSV_DME_00041	Amount Added:	0.20	Units: uL

Report Date: 31-Aug-2022 08:31:08 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X02.D				
Injection Date:	22-Aug-2022 16:29:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD.2 Sm			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

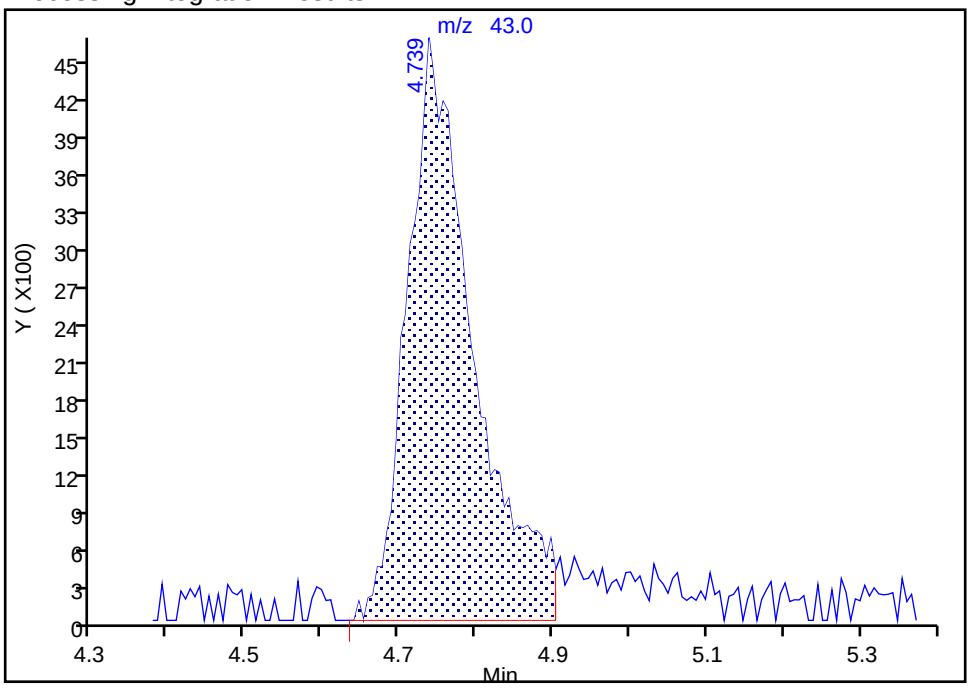
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X02.D
Injection Date: 22-Aug-2022 16:29:30 Instrument ID: 10193
Lims ID: IC STD.2 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

37 Vinyl acetate, CAS: 108-05-4

Signal: 1

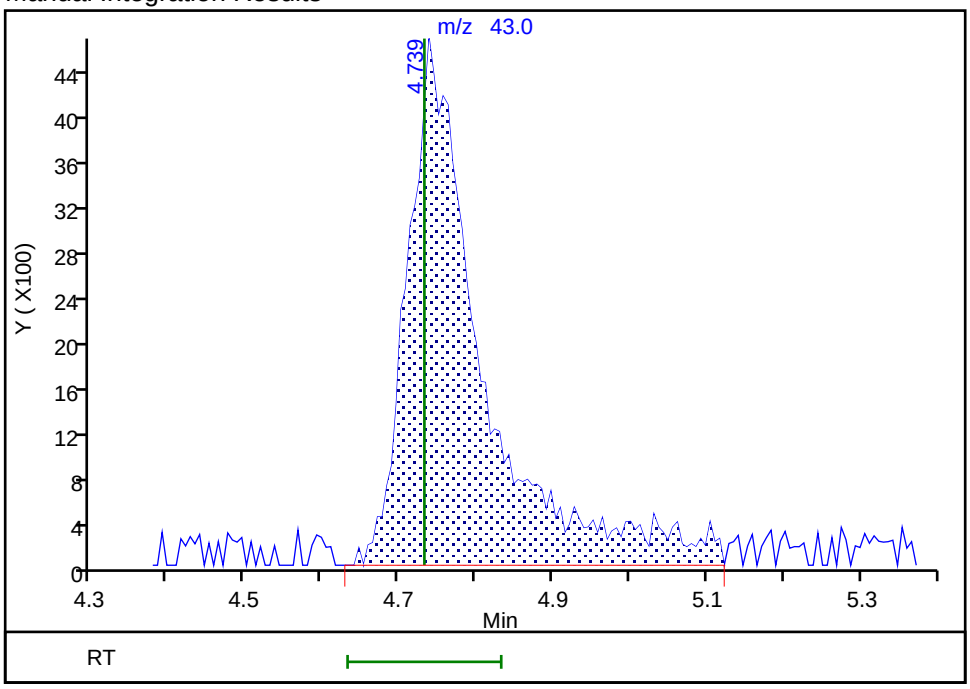
Processing Integration Results

RT: 4.74
Area: 27896
Amount: 0.131232
Amount Units: ug/l



Manual Integration Results

RT: 4.74
Area: 31833
Amount: 0.170036
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 08:33:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

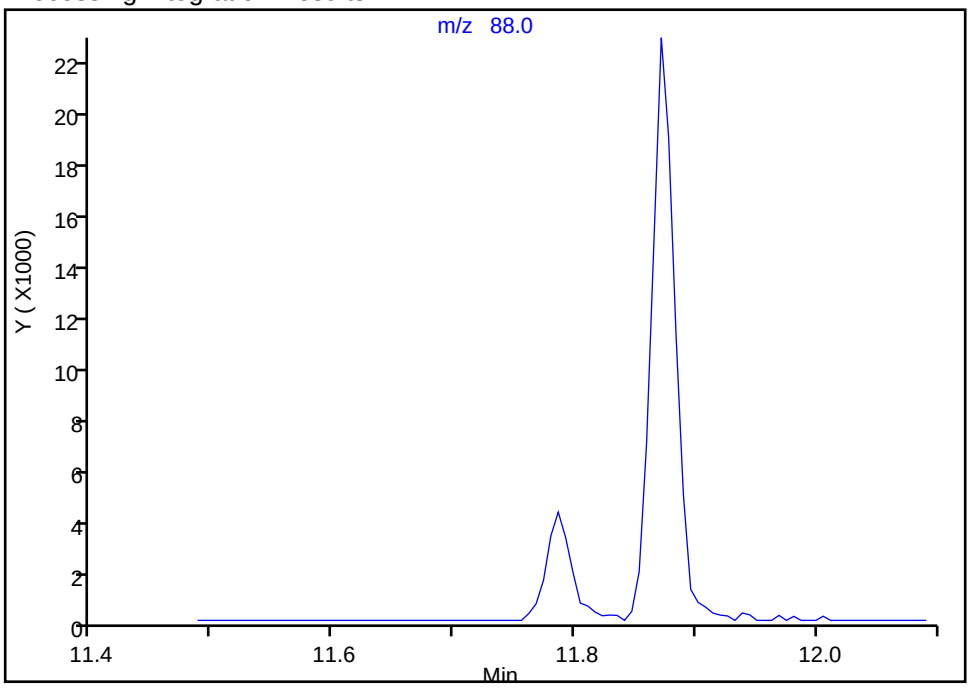
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X02.D				
Injection Date:	22-Aug-2022 16:29:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

119 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

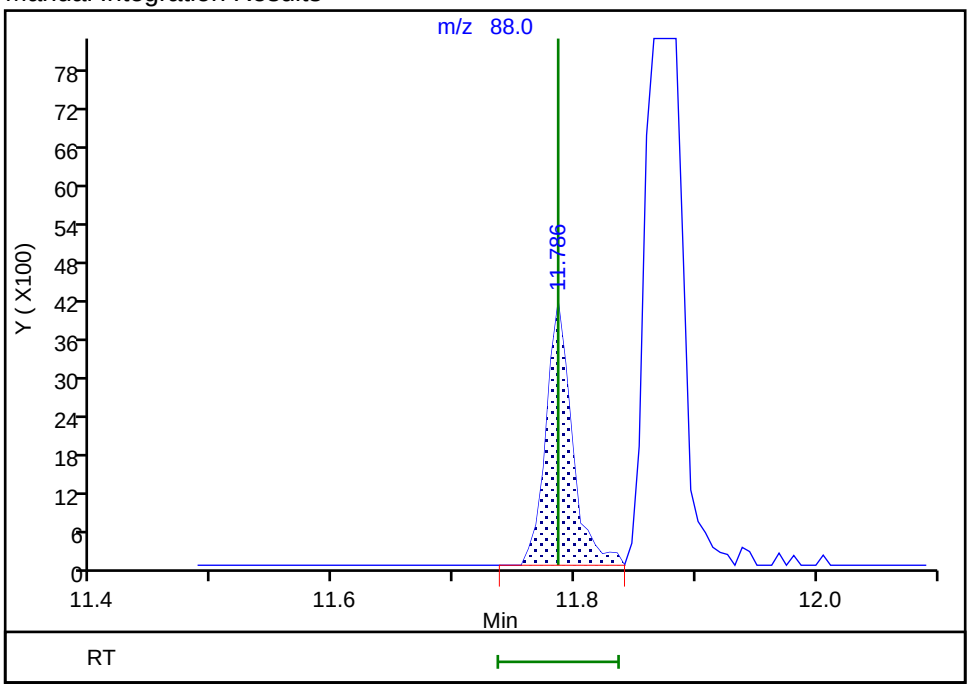
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.79
Area: 6192
Amount: 0.392868
Amount Units: ug/l



Reviewer: UCB5, 30-Aug-2022 16:04:09
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X03.D
Lims ID: IC STD.5 Sm
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Aug-2022 16:52:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-004
Misc. Info.: IC STD.5 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:09 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:43:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.721	1.727	-0.006	93	24137	0.5000	0.5640	
3 Chlorodifluoromethane	51	1.764	1.776	-0.012	97	45157	0.5000	0.5506	
4 Dimethyl ether	45	1.825	1.819	0.006	100	38943	0.5000	0.4580	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.111	2.117	-0.006	34	37766	0.5000	0.5488	
26 Acetonitrile	41	3.538	3.501	0.037	21	19506	2.50	2.89	M
* 30 t-Butyl alcohol-d10 (IS)	65	3.739	3.745	-0.006	89	140145	50.0	50.0	
37 Vinyl acetate	43	4.757	4.733	0.024	97	55154	0.5000	0.4708	
44 Ethyl acetate	43	5.641	5.617	0.024	99	24973	0.5000	0.5368	
62 Isopropyl acetate	43	6.891	6.885	0.006	98	53417	0.5000	0.5156	
* 64 Fluorobenzene (IS)	96	7.196	7.196	0.000	99	2051157	10.0	10.0	
74 n-Propyl acetate	61	8.232	8.214	0.018	98	10247	0.5000	0.5306	
77 2-Chloroethyl vinyl ether	63	8.775	8.762	0.013	92	14240	0.5000	0.5167	
105 n-Butyl acetate	43	10.256	10.250	0.006	99	47230	0.5000	0.3716	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1582930	10.0	10.0	
119 cis-1,4-Dichloro-2-butene	88	11.786	11.786	0.000	25	15966	1.00	1.02	M
120 Cyclohexanone	55	11.811	11.810	0.001	90	31310	25.0	29.8	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	893224	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

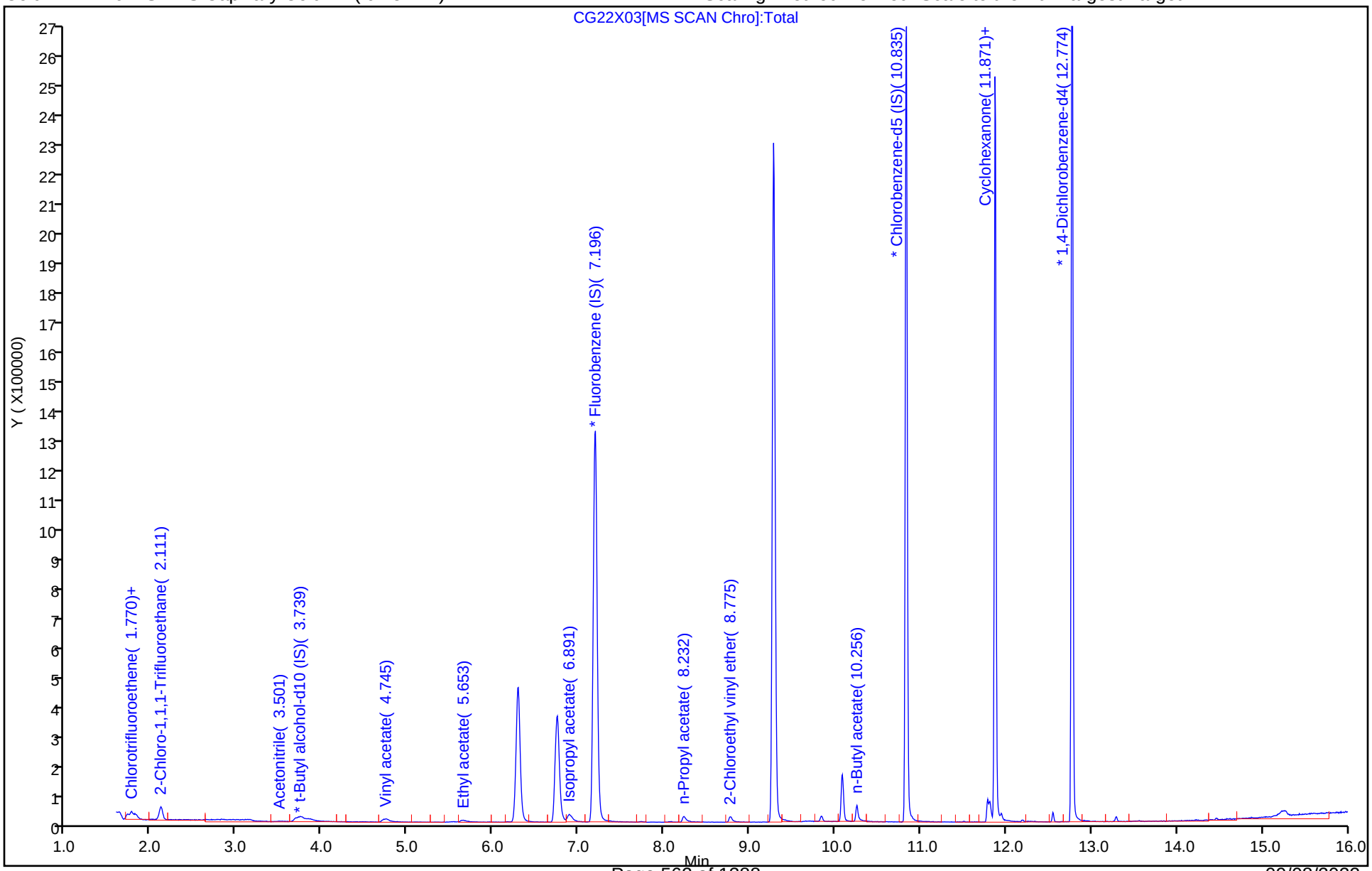
MSV_CCV_V5ACE_00013	Amount Added:	0.50	Units: uL
MSV_CCV_CYC_00004	Amount Added:	4.00	Units: uL
MSV_V_SMRV4_00045	Amount Added:	2.50	Units: uL
MSV_HP25_ISO_00007	Amount Added:	1.00	Units: uL
MSV_DME_00041	Amount Added:	0.50	Units: uL

Report Date: 31-Aug-2022 08:31:10 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X03.D				
Injection Date:	22-Aug-2022 16:52:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD.5 Sm			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

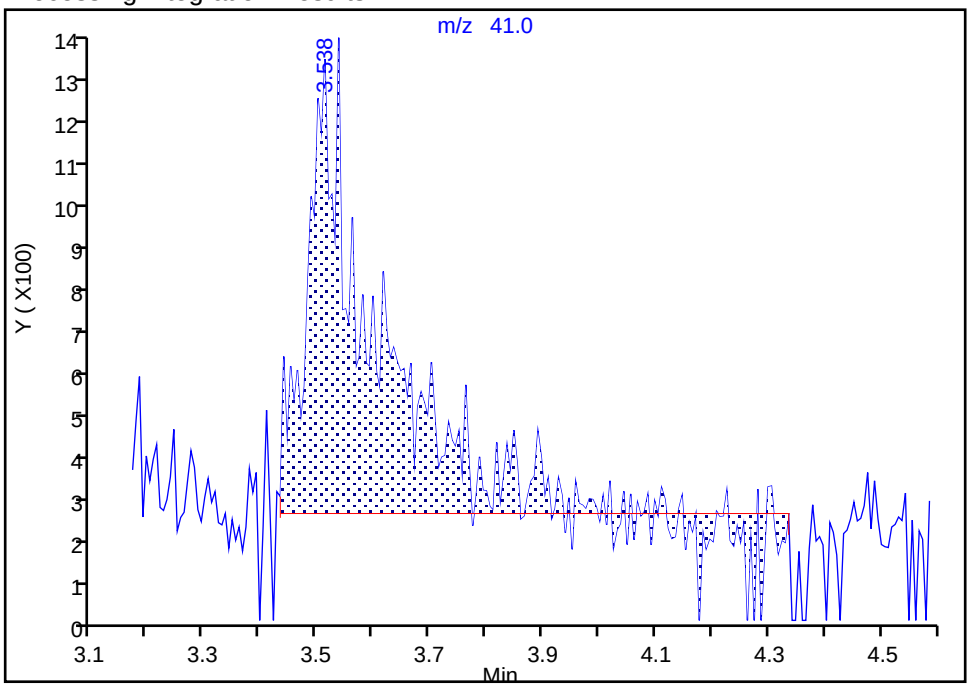
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X03.D
Injection Date: 22-Aug-2022 16:52:30 Instrument ID: 10193
Lims ID: IC STD.5 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Acetonitrile, CAS: 75-05-8

Signal: 1

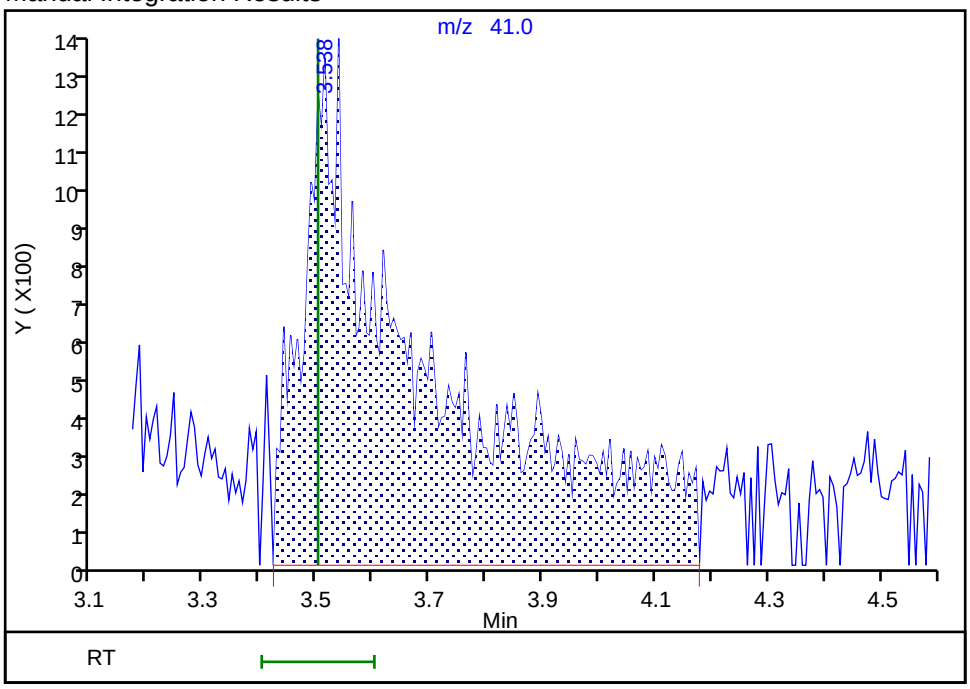
Processing Integration Results

RT: 3.54
Area: 7890
Amount: 1.714722
Amount Units: ug/l



Manual Integration Results

RT: 3.54
Area: 19506
Amount: 2.890736
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 08:34:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

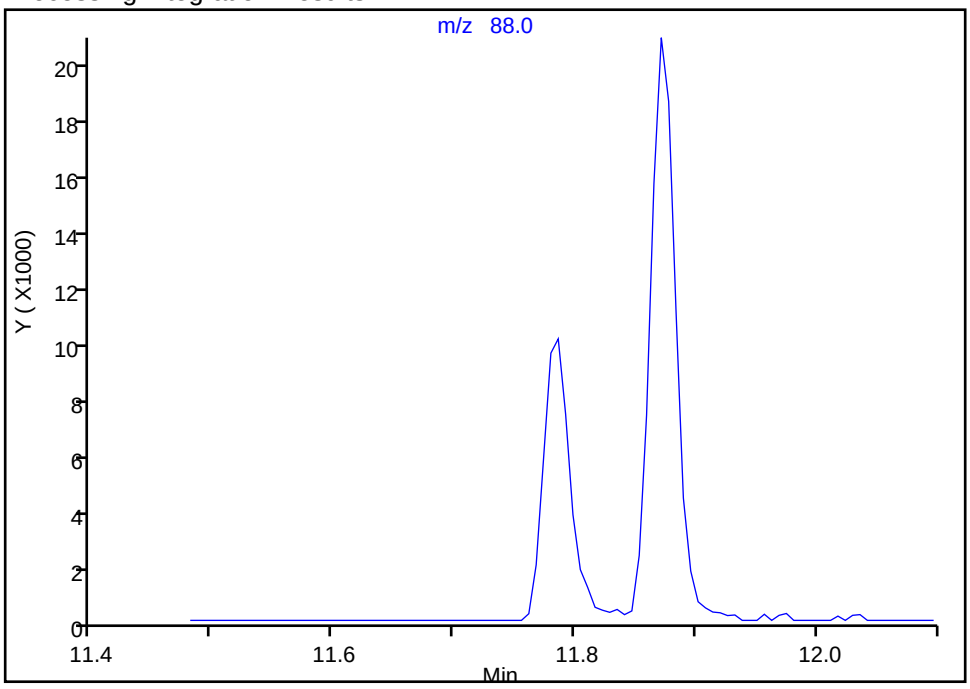
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X03.D				
Injection Date:	22-Aug-2022 16:52:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

119 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

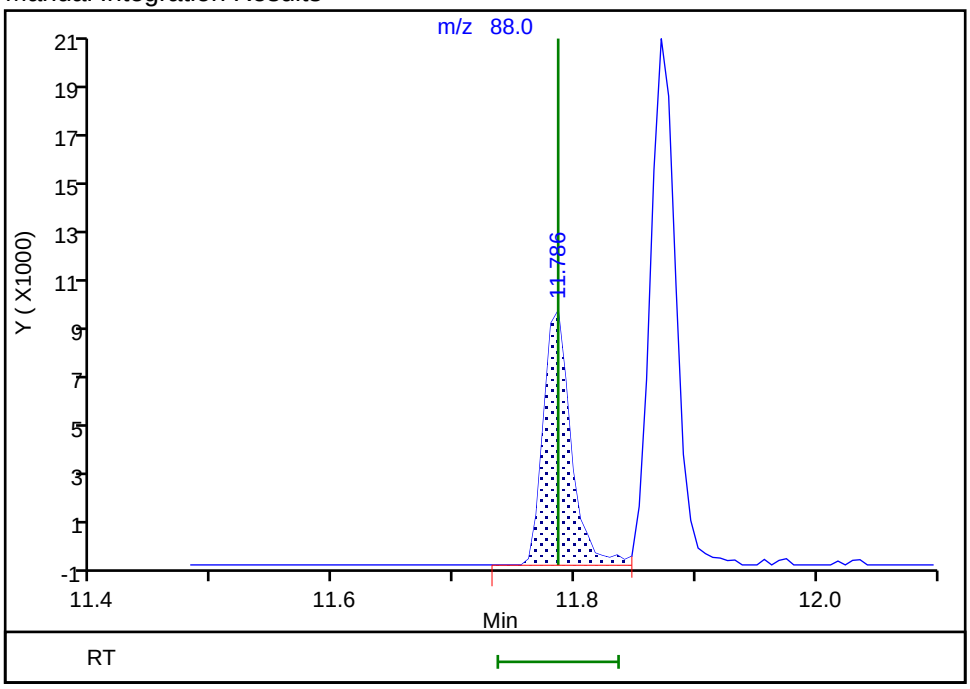
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.79
Area: 15966
Amount: 1.015106
Amount Units: ug/l



Reviewer: UCB5, 30-Aug-2022 16:04:48
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X04.D
Lims ID: IC STD1 Sm
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Aug-2022 17:14:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-005
Misc. Info.: IC STD1 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:11 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:43:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.721	1.727	-0.006	92	46074	1.00	1.08	
3 Chlorodifluoromethane	51	1.770	1.776	-0.006	97	86518	1.00	1.06	
4 Dimethyl ether	45	1.825	1.819	0.006	100	68735	1.00	0.9454	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.111	2.117	-0.006	34	71285	1.00	1.04	
26 Acetonitrile	41	3.519	3.501	0.018	20	27836	5.00	5.40	M
* 30 t-Butyl alcohol-d10 (IS)	65	3.739	3.745	-0.006	89	143636	50.0	50.0	
37 Vinyl acetate	43	4.739	4.733	0.006	97	96327	1.00	1.00	
44 Ethyl acetate	43	5.641	5.617	0.024	99	41896	1.00	1.02	M
62 Isopropyl acetate	43	6.891	6.885	0.006	98	97069	1.00	1.05	
* 64 Fluorobenzene (IS)	96	7.196	7.196	0.000	99	2038951	10.0	10.0	
74 n-Propyl acetate	61	8.232	8.214	0.018	98	19861	1.00	1.03	
77 2-Chloroethyl vinyl ether	63	8.775	8.762	0.013	92	29332	1.00	1.07	
105 n-Butyl acetate	43	10.256	10.250	0.006	98	84961	1.00	0.8990	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1573382	10.0	10.0	
119 cis-1,4-Dichloro-2-butene	88	11.786	11.786	0.000	26	31401	2.00	2.01	M
120 Cyclohexanone	55	11.811	11.810	0.001	92	54811	50.0	51.0	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	894915	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00013	Amount Added:	0.50	Units: uL
MSV_CCV_CYC_00004	Amount Added:	4.00	Units: uL
MSV_V_SMRV4_00045	Amount Added:	2.50	Units: uL
MSV_HP25_ISO_00007	Amount Added:	1.00	Units: uL
MSV_DME_00041	Amount Added:	0.50	Units: uL

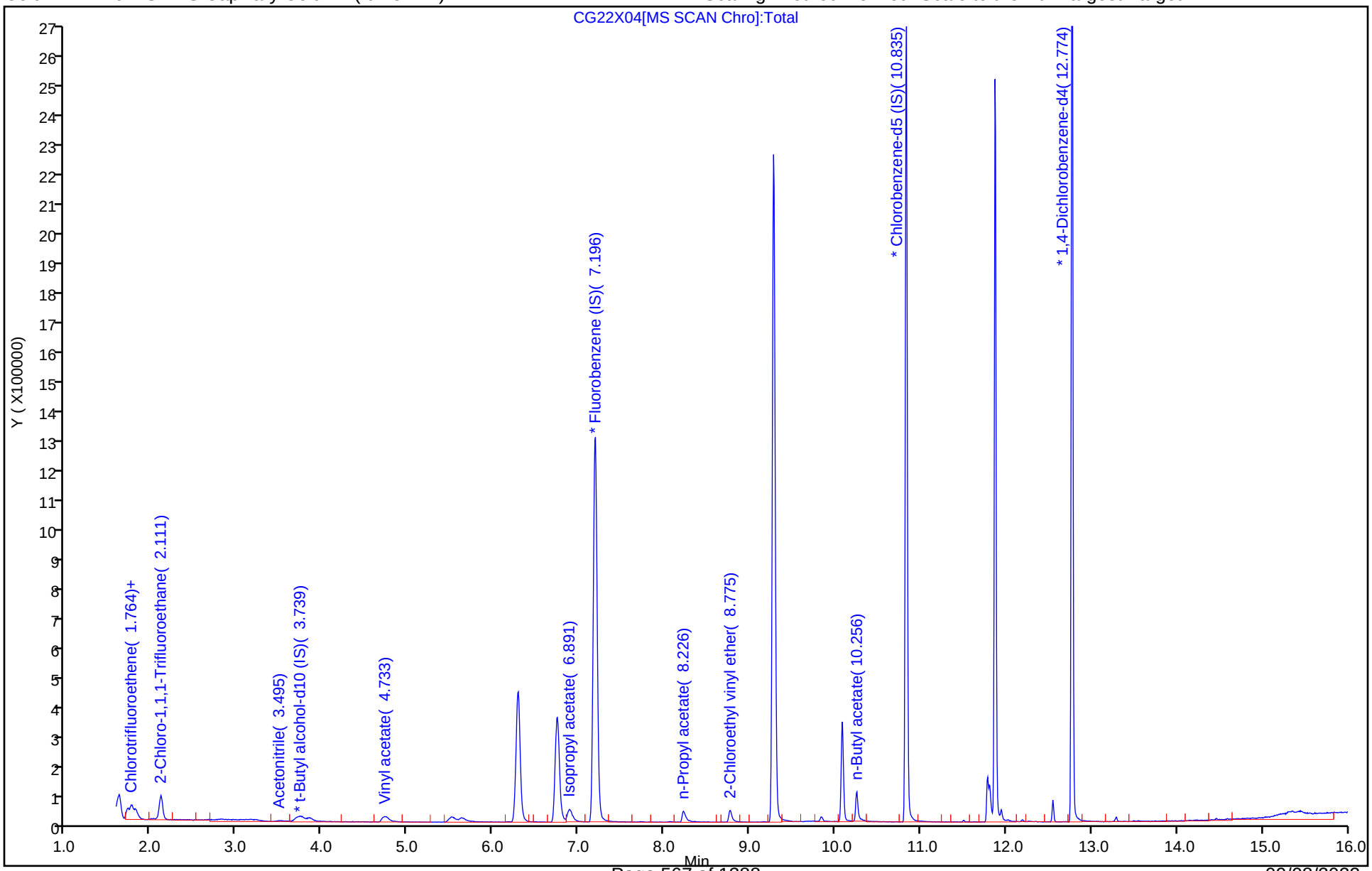
Report Date: 31-Aug-2022 08:31:11 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X04.D

Injection Date:	22-Aug-2022 17:14:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD1 Sm			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

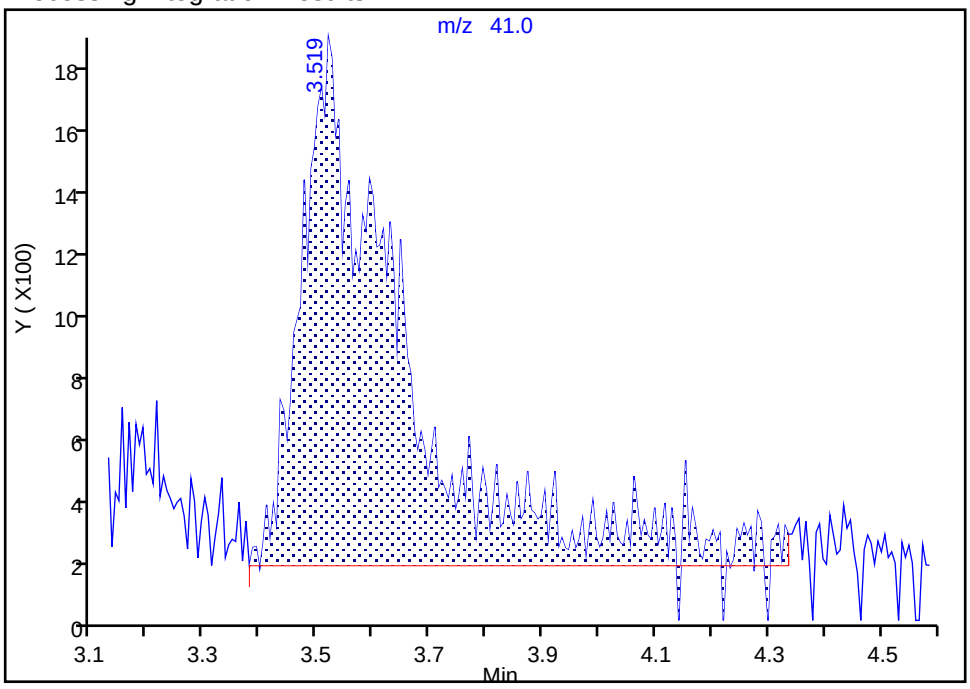
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X04.D				
Injection Date:	22-Aug-2022 17:14:30	Instrument ID:	10193		
Lims ID:	IC STD1 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Acetonitrile, CAS: 75-05-8

Signal: 1

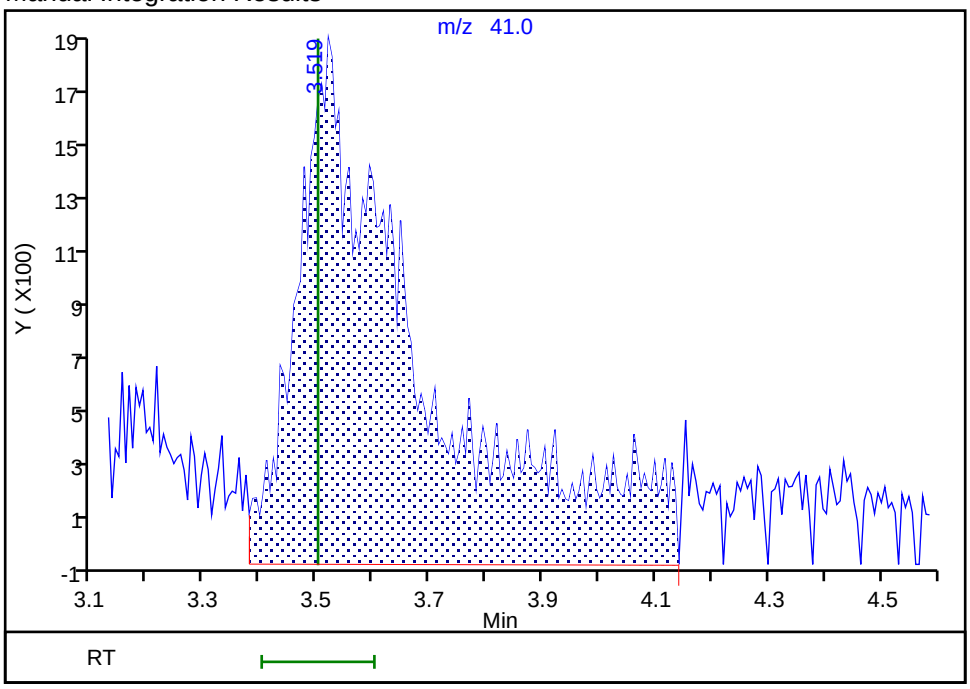
Processing Integration Results

RT: 3.52
Area: 20673
Amount: 3.949925
Amount Units: ug/l



Manual Integration Results

RT: 3.52
Area: 27836
Amount: 5.398331
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 08:35:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

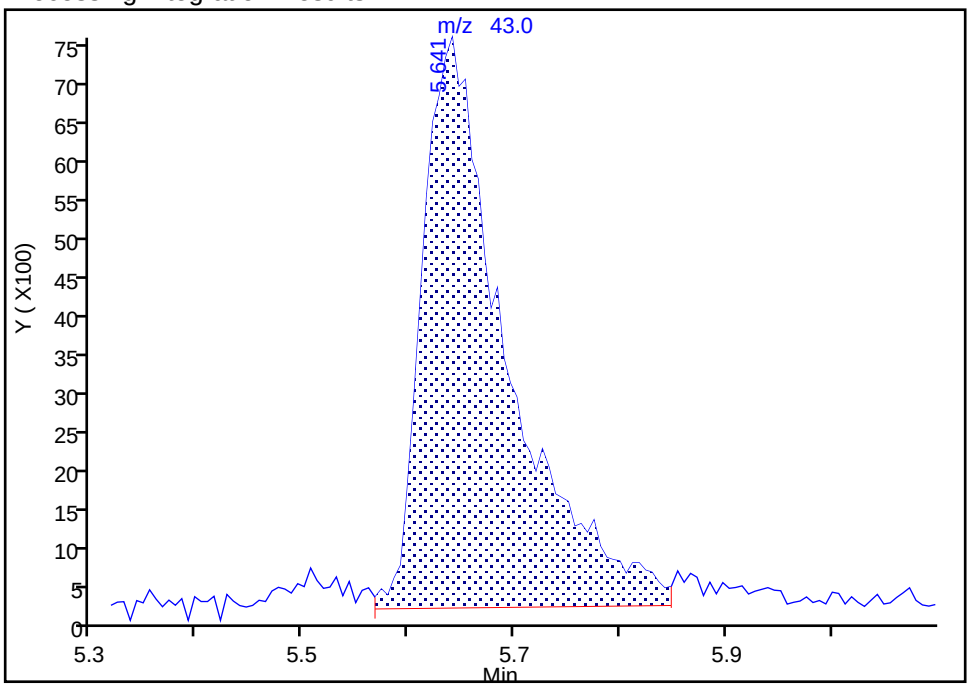
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X04.D				
Injection Date:	22-Aug-2022 17:14:30	Instrument ID:	10193		
Lims ID:	IC STD1 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

44 Ethyl acetate, CAS: 141-78-6

Signal: 1

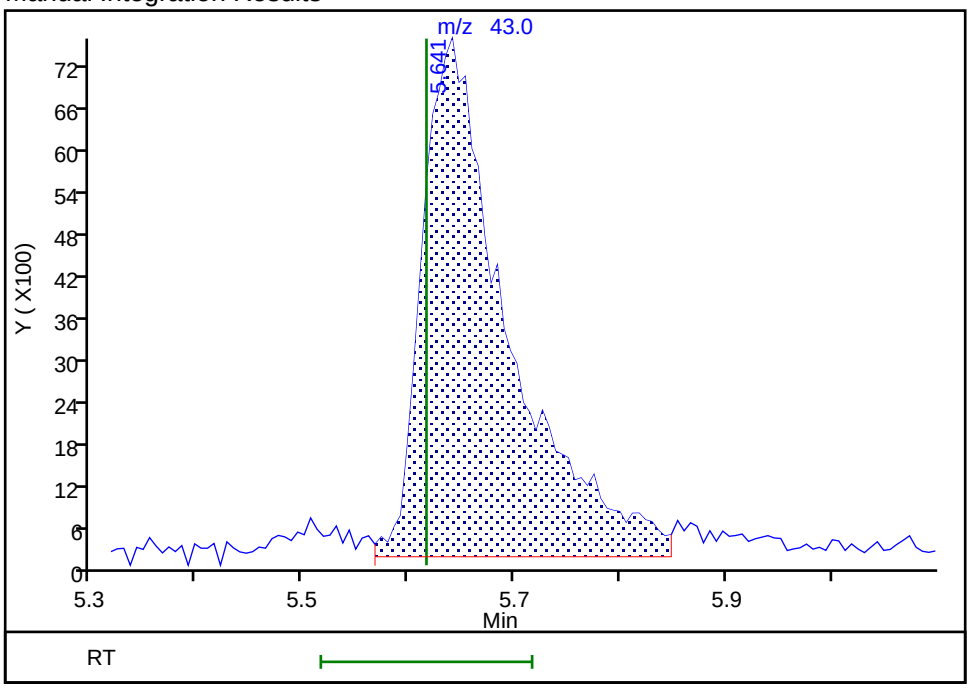
Processing Integration Results

RT: 5.64
Area: 41063
Amount: 1.002689
Amount Units: ug/l



Manual Integration Results

RT: 5.64
Area: 41896
Amount: 1.022925
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 08:35:49
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

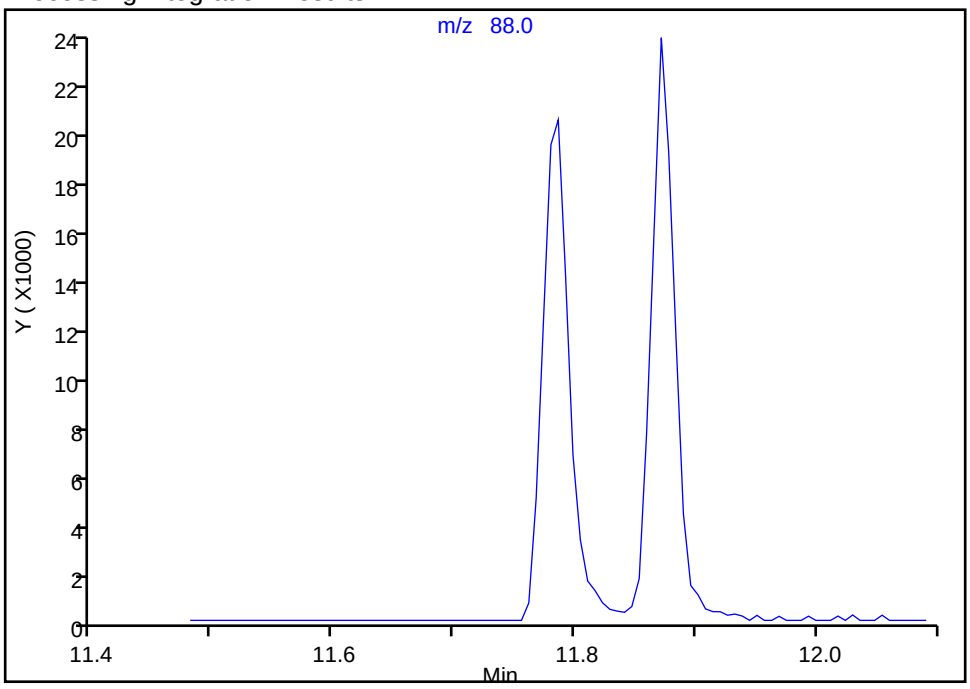
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X04.D				
Injection Date:	22-Aug-2022 17:14:30	Instrument ID:	10193		
Lims ID:	IC STD1 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

119 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

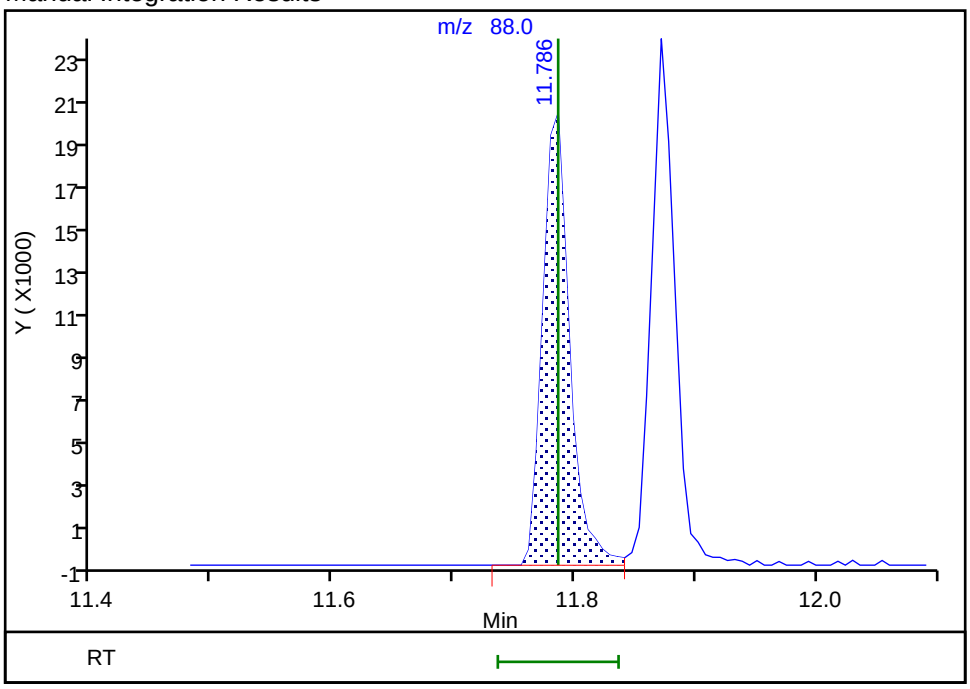
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.79
Area: 31401
Amount: 2.008567
Amount Units: ug/l



Reviewer: UCB5, 30-Aug-2022 16:05:15
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X05.D
Lims ID: IC STD2 Sm
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Aug-2022 17:36:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-006
Misc. Info.: IC STD2 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:13 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:43:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.727	1.727	0.000	93	79876	2.00	1.89	
3 Chlorodifluoromethane	51	1.770	1.770	0.000	97	149552	2.00	1.85	
4 Dimethyl ether	45	1.812	1.812	0.000	98	129948	2.00	1.96	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.111	2.111	0.000	33	126462	2.00	1.87	
26 Acetonitrile	41	3.507	3.507	0.000	96	43831	10.0	10.3	M
* 30 t-Butyl alcohol-d10 (IS)	65	3.733	3.733	0.000	89	128372	50.0	50.0	
37 Vinyl acetate	43	4.726	4.726	0.000	97	158438	2.00	1.82	
44 Ethyl acetate	43	5.623	5.623	0.000	98	70469	2.00	1.86	
62 Isopropyl acetate	43	6.891	6.891	0.000	98	162415	2.00	1.87	
* 64 Fluorobenzene (IS)	96	7.195	7.195	0.000	99	2020333	10.0	10.0	
74 n-Propyl acetate	61	8.226	8.226	0.000	99	32972	2.00	1.73	
77 2-Chloroethyl vinyl ether	63	8.768	8.768	0.000	91	49636	2.00	1.83	
105 n-Butyl acetate	43	10.250	10.250	0.000	99	149917	2.00	1.83	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1551822	10.0	10.0	
119 cis-1,4-Dichloro-2-butene	88	11.786	11.786	0.000	26	53415	4.00	3.46	M
120 Cyclohexanone	55	11.810	11.810	0.000	91	90126	100.0	93.8	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	870253	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00013	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00004	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00045	Amount Added:	5.00	Units: uL
MSV_HP25_ISO_00007	Amount Added:	1.00	Units: uL
MSV_DME_00041	Amount Added:	1.00	Units: uL

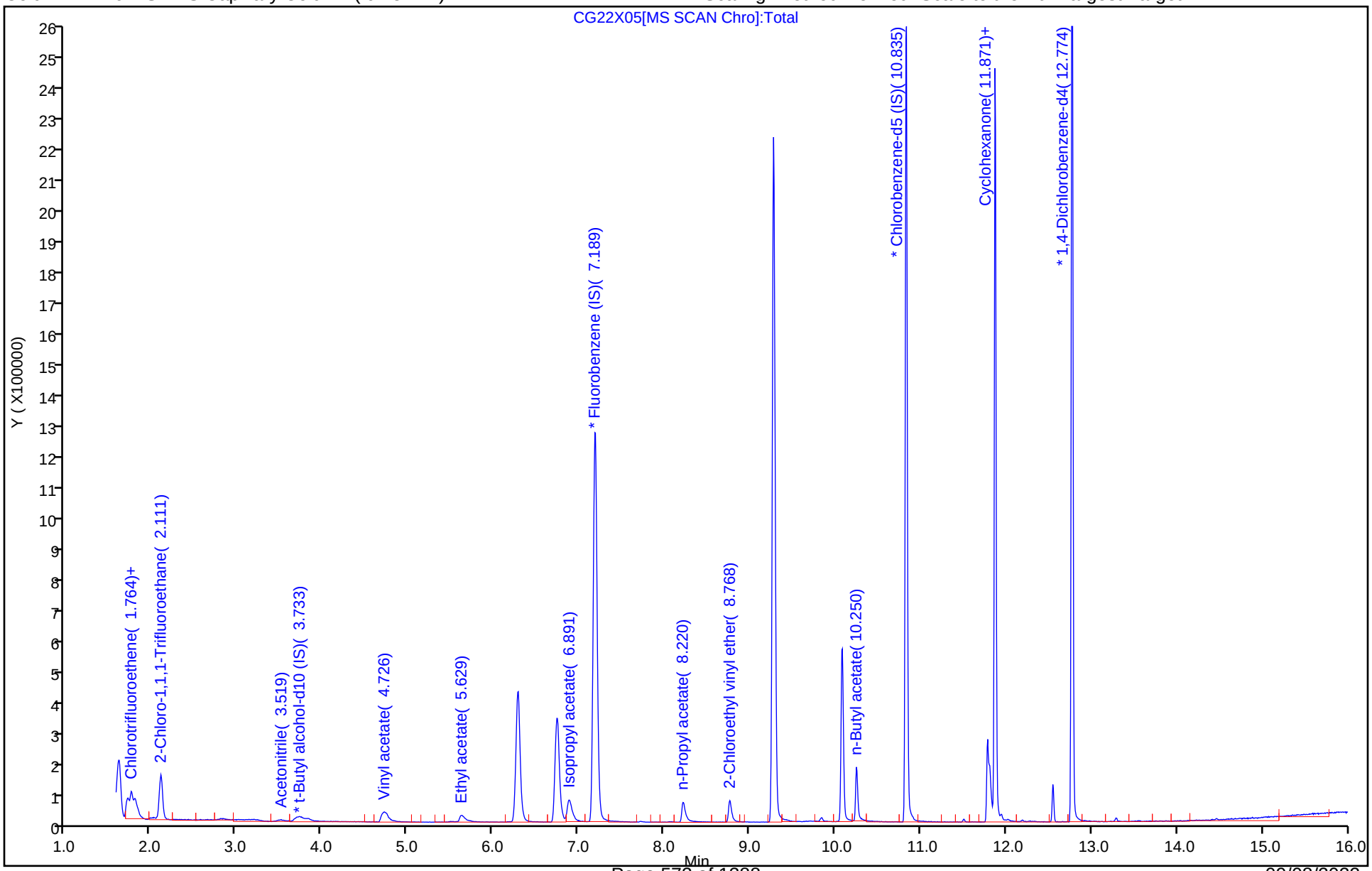
Report Date: 31-Aug-2022 08:31:13 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X05.D

Injection Date:	22-Aug-2022 17:36:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD2 Sm			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

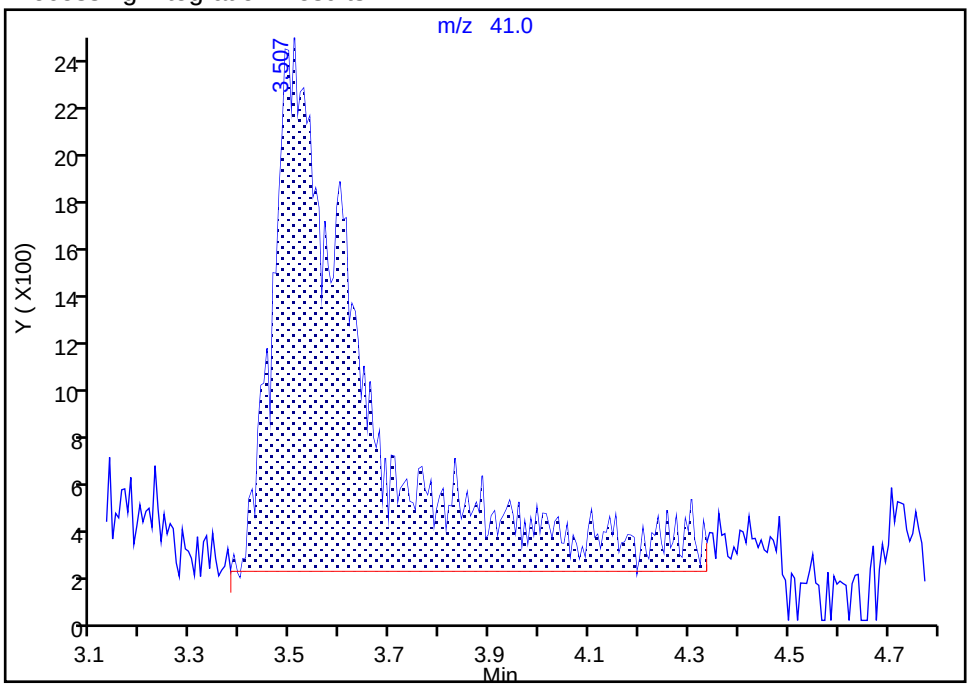
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X05.D
Injection Date: 22-Aug-2022 17:36:30 Instrument ID: 10193
Lims ID: IC STD2 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Acetonitrile, CAS: 75-05-8

Signal: 1

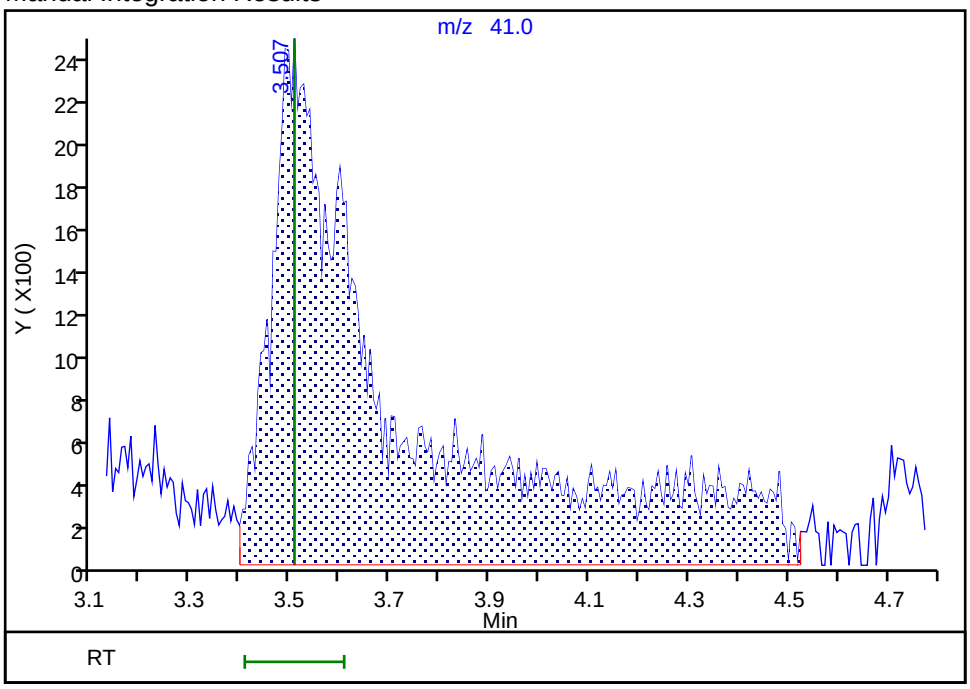
Processing Integration Results

RT: 3.51
Area: 28726
Amount: 5.330718
Amount Units: ug/l



Manual Integration Results

RT: 3.51
Area: 43831
Amount: 10.267080
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 08:36:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

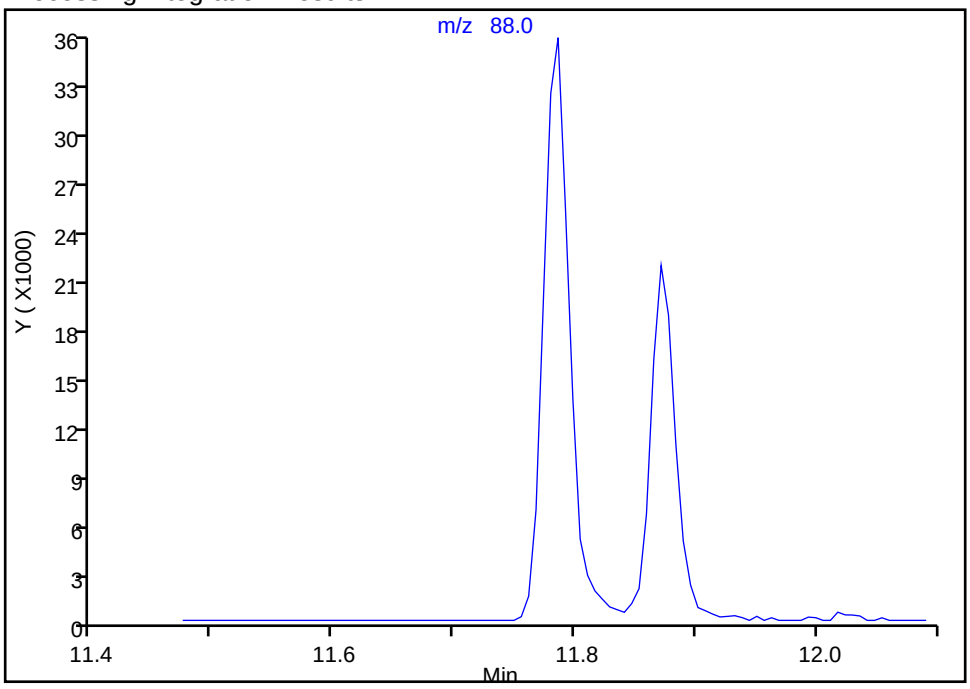
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X05.D				
Injection Date:	22-Aug-2022 17:36:30	Instrument ID:	10193		
Lims ID:	IC STD2 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

119 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

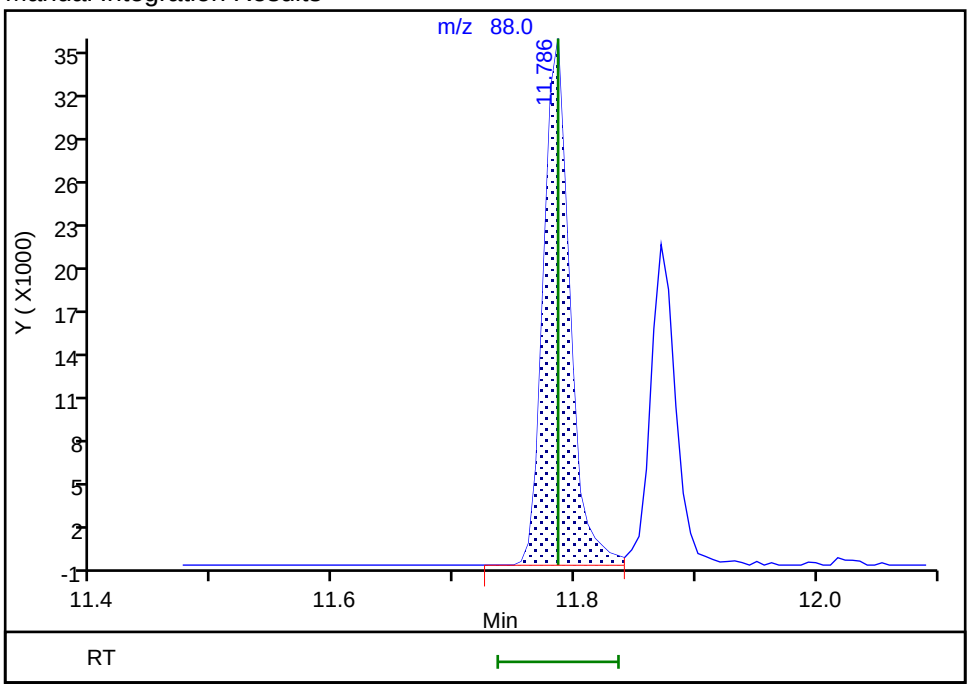
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.79
Area: 53415
Amount: 3.464164
Amount Units: ug/l



Reviewer: UCB5, 30-Aug-2022 16:05:42
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X06.D
Lims ID: IC STD5 Sm
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Aug-2022 17:58:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-007
Misc. Info.: IC STD5 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:15 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:43:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.739	1.727	0.012	93	196040	5.00	4.69	
3 Chlorodifluoromethane	51	1.782	1.770	0.012	97	373291	5.00	4.66	
4 Dimethyl ether	45	1.831	1.812	0.019	98	326435	5.00	5.22	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.123	2.111	0.012	34	326160	5.00	4.85	
26 Acetonitrile	41	3.525	3.507	0.018	97	90497	25.0	24.5	M
* 30 t-Butyl alcohol-d10 (IS)	65	3.775	3.733	0.042	89	130670	50.0	50.0	
37 Vinyl acetate	43	4.739	4.726	0.013	97	424449	5.00	5.30	
44 Ethyl acetate	43	5.629	5.623	0.006	99	177159	5.00	4.96	
62 Isopropyl acetate	43	6.897	6.891	0.006	98	417620	5.00	5.06	
* 64 Fluorobenzene (IS)	96	7.195	7.195	0.000	99	2004756	10.0	10.0	
74 n-Propyl acetate	61	8.220	8.226	-0.006	98	89234	5.00	4.73	
77 2-Chloroethyl vinyl ether	63	8.768	8.768	0.000	92	132539	5.00	4.92	
105 n-Butyl acetate	43	10.250	10.250	0.000	99	384094	5.00	5.15	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1543904	10.0	10.0	
119 cis-1,4-Dichloro-2-butene	88	11.780	11.786	-0.006	26	153304	10.0	10.0	M
120 Cyclohexanone	55	11.810	11.810	0.000	92	243489	250.0	248.9	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	875352	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

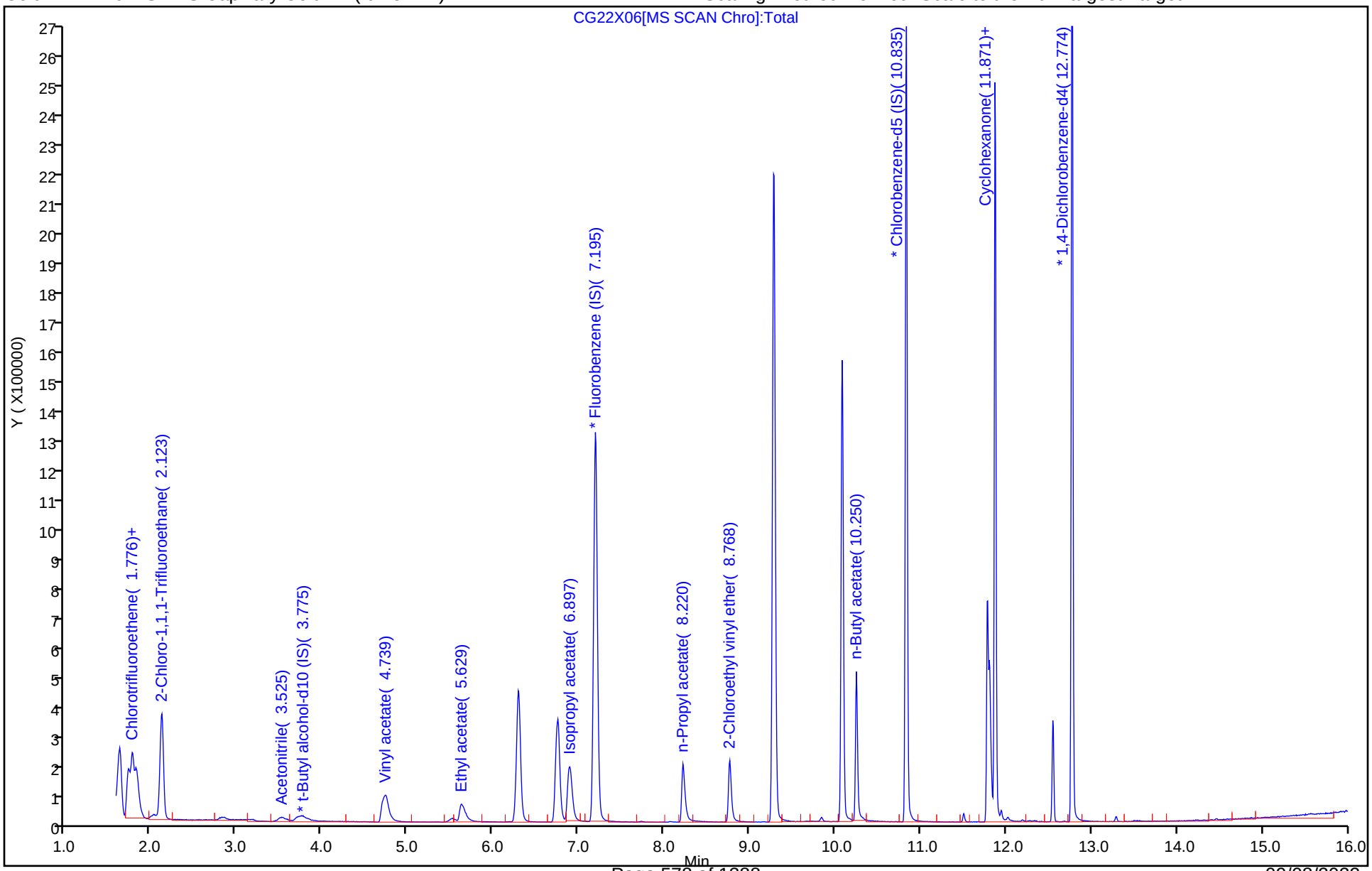
MSV_CCV_V5ACE_00013	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00004	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00045	Amount Added:	5.00	Units: uL
MSV_HP25_ISO_00007	Amount Added:	1.00	Units: uL
MSV_DME_00041	Amount Added:	1.00	Units: uL

Report Date: 31-Aug-2022 08:31:15 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X06.D				
Injection Date:	22-Aug-2022 17:58:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD5 Sm			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

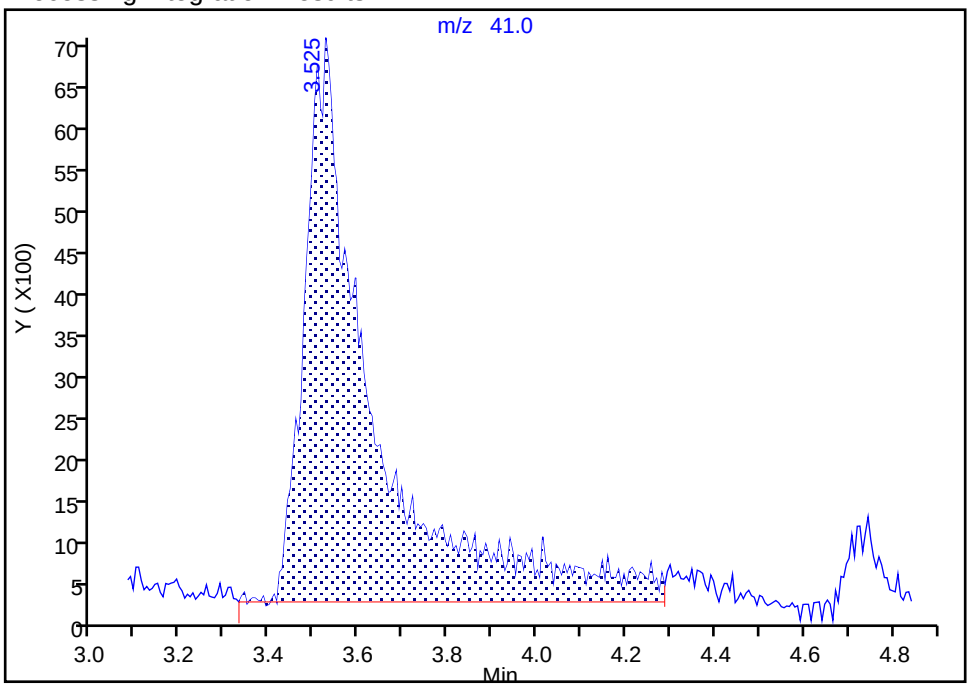
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X06.D				
Injection Date:	22-Aug-2022 17:58:30	Instrument ID:	10193		
Lims ID:	IC STD5 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Acetonitrile, CAS: 75-05-8

Signal: 1

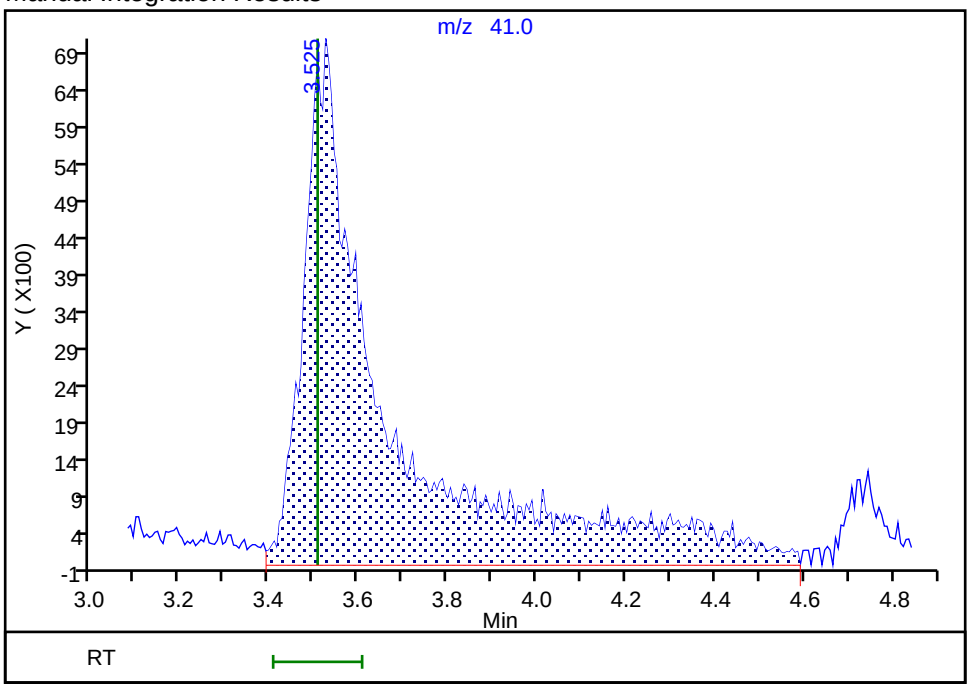
Processing Integration Results

RT: 3.53
Area: 71595
Amount: 20.201296
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 90497
Amount: 24.460330
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 08:37:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

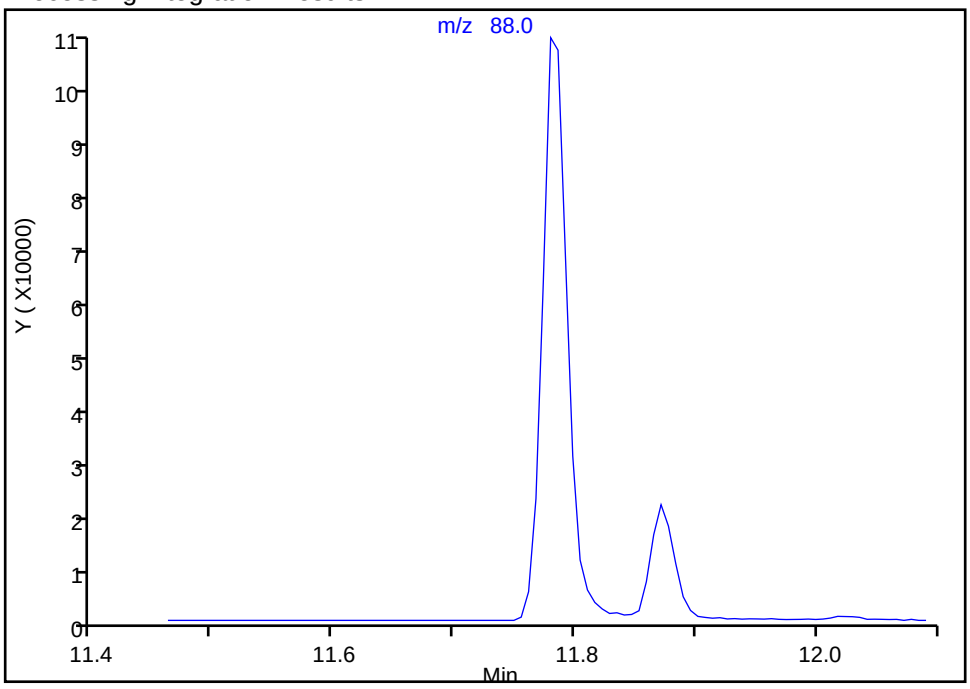
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X06.D
Injection Date: 22-Aug-2022 17:58:30 Instrument ID: 10193
Lims ID: IC STD5 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

119 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

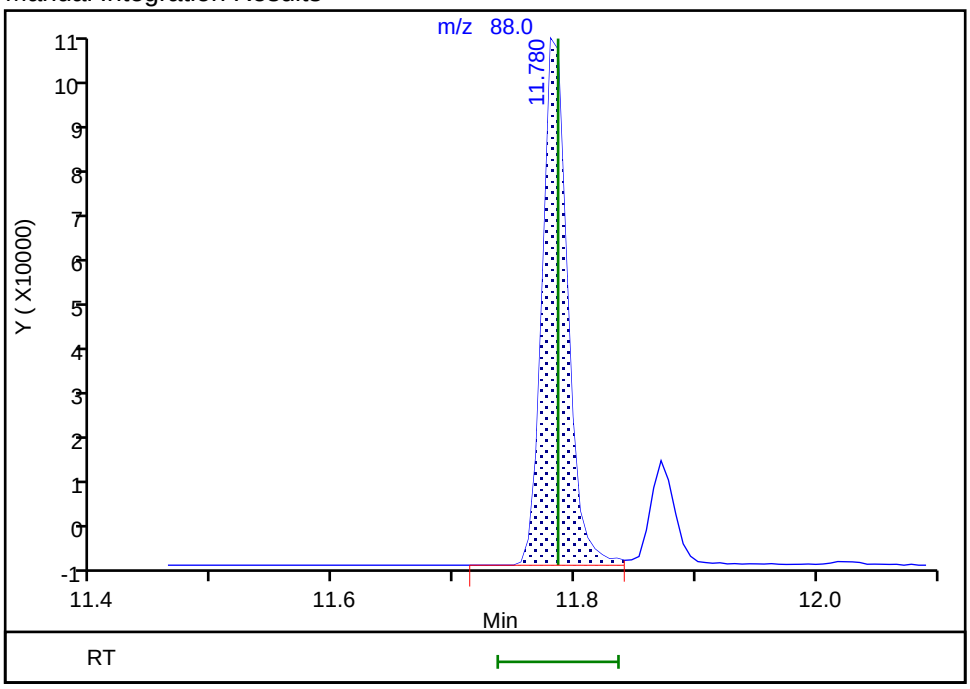
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.78
Area: 153304
Amount: 9.993332
Amount Units: ug/l



Reviewer: UCB5, 30-Aug-2022 16:06:15
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X07.D
Lims ID: IC STD10 Sm
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Aug-2022 18:21:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-008
Misc. Info.: IC STD10 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:16 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:44:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.727	1.727	0.000	93	414541	10.0	9.81	
3 Chlorodifluoromethane	51	1.776	1.776	0.000	97	766084	10.0	9.46	
4 Dimethyl ether	45	1.819	1.819	0.000	98	679826	10.0	10.9	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.117	2.117	0.000	33	666515	10.0	9.81	
26 Acetonitrile	41	3.501	3.501	0.000	99	164240	50.0	46.2	
* 30 t-Butyl alcohol-d10 (IS)	65	3.739	3.739	0.000	90	142081	50.0	50.0	
37 Vinyl acetate	43	4.733	4.733	0.000	97	790383	10.0	9.97	
44 Ethyl acetate	43	5.617	5.617	0.000	99	371204	10.0	10.5	
62 Isopropyl acetate	43	6.885	6.885	0.000	98	851869	10.0	10.4	
* 64 Fluorobenzene (IS)	96	7.196	7.196	0.000	99	2024509	10.0	10.0	
74 n-Propyl acetate	61	8.214	8.214	0.000	99	183084	10.0	9.61	
77 2-Chloroethyl vinyl ether	63	8.762	8.762	0.000	91	278108	10.0	10.2	
105 n-Butyl acetate	43	10.250	10.250	0.000	99	771925	10.0	10.6	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1553053	10.0	10.0	
119 cis-1,4-Dichloro-2-butene	88	11.786	11.786	0.000	25	324327	20.0	21.0	M
120 Cyclohexanone	55	11.810	11.810	0.000	91	563833	500.0	530.0	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	889326	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00013	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00004	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00045	Amount Added:	5.00	Units: uL
MSV_HP25_ISO_00007	Amount Added:	1.00	Units: uL
MSV_DME_00041	Amount Added:	1.00	Units: uL

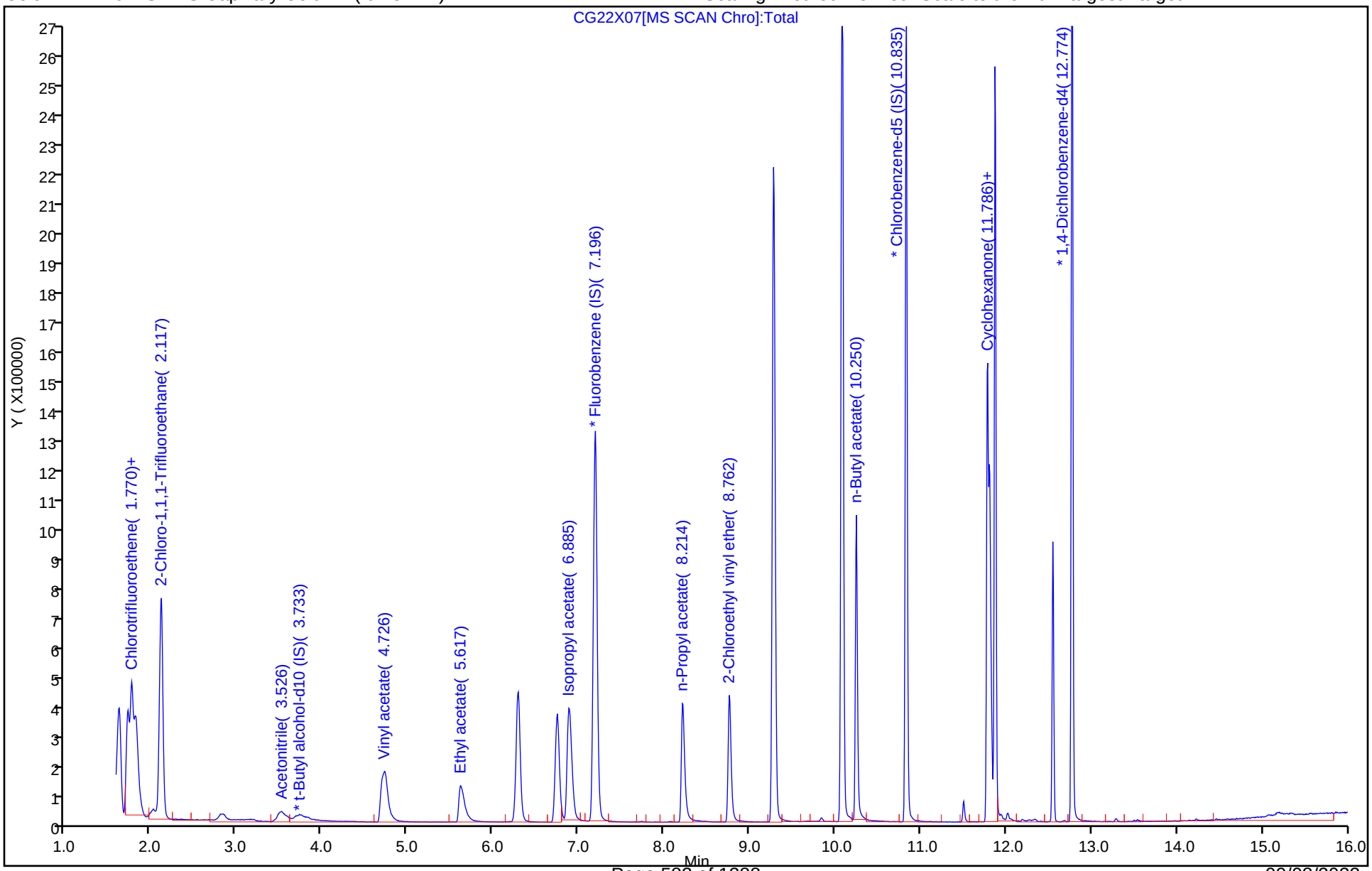
Report Date: 31-Aug-2022 08:31:17 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X07.D

Injection Date:	22-Aug-2022 18:21:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD10 Sm			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

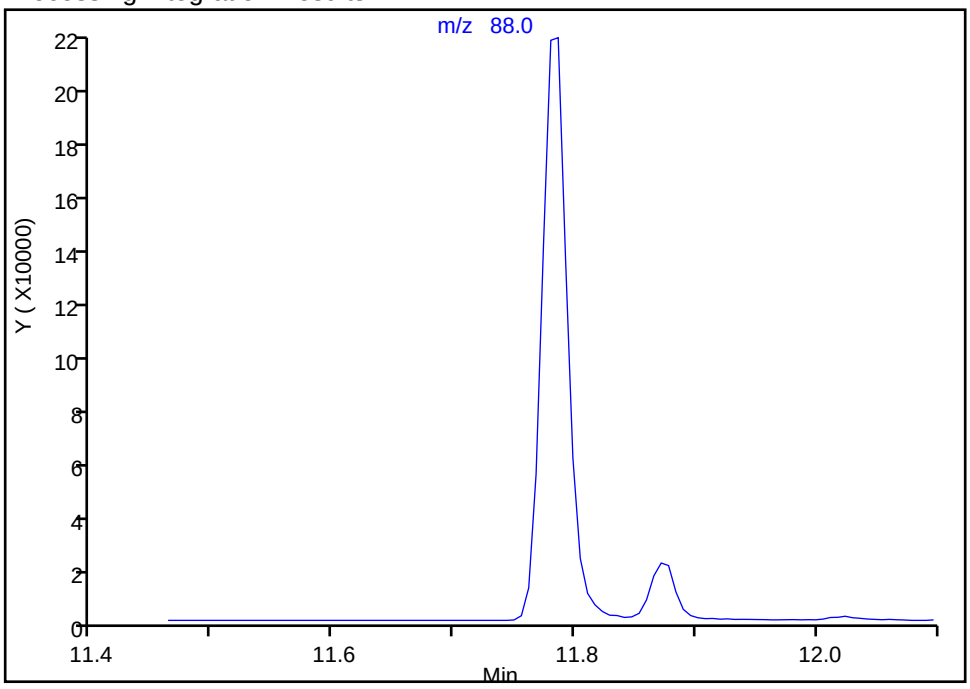
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X07.D				
Injection Date:	22-Aug-2022 18:21:30	Instrument ID:	10193		
Lims ID:	IC STD10 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

119 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

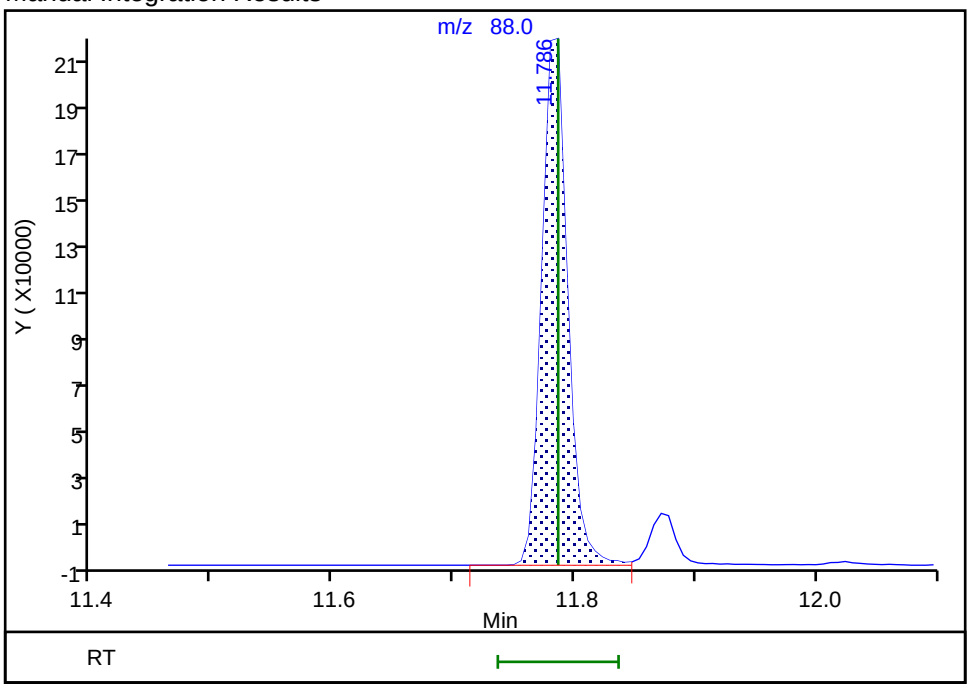
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.79
Area: 324327
Amount: 21.017156
Amount Units: ug/l



Reviewer: UCB5, 30-Aug-2022 16:06:44
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X08.D
Lims ID: IC STD25 Sm
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 22-Aug-2022 18:43:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-009
Misc. Info.: IC STD25 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:18 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:44:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.715	1.727	-0.012	93	985063	25.0	23.4	
3 Chlorodifluoromethane	51	1.763	1.776	-0.013	98	1831067	25.0	22.7	
4 Dimethyl ether	45	1.812	1.819	-0.007	99	1498290	25.0	24.5	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.105	2.117	-0.012	46	1599222	25.0	23.7	
26 Acetonitrile	41	3.501	3.501	0.000	99	436874	125.0	128.4	M
* 30 t-Butyl alcohol-d10 (IS)	65	3.733	3.739	-0.006	91	146922	50.0	50.0	
37 Vinyl acetate	43	4.720	4.733	-0.013	97	1942117	25.0	25.0	
44 Ethyl acetate	43	5.610	5.617	-0.007	99	841344	25.0	24.1	
62 Isopropyl acetate	43	6.884	6.885	-0.001	98	1932998	25.0	23.8	
* 64 Fluorobenzene (IS)	96	7.189	7.196	-0.007	99	2014203	10.0	10.0	
74 n-Propyl acetate	61	8.213	8.214	-0.001	99	425886	25.0	22.5	
77 2-Chloroethyl vinyl ether	63	8.762	8.762	0.000	91	697444	25.0	25.8	
105 n-Butyl acetate	43	10.244	10.250	-0.006	99	1785126	25.0	24.8	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1555674	10.0	10.0	
119 cis-1,4-Dichloro-2-butene	88	11.780	11.786	-0.006	25	835163	50.0	54.0	M
120 Cyclohexanone	55	11.810	11.810	0.000	92	1478443	1250.1	1343.9	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	879381	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00013	Amount Added:	2.50	Units: uL
MSV_CCV_CYC_00004	Amount Added:	20.00	Units: uL
MSV_V_SMRV4_00045	Amount Added:	12.50	Units: uL
MSV_HP25_ISO_00007	Amount Added:	1.00	Units: uL
MSV_DME_00041	Amount Added:	2.50	Units: uL

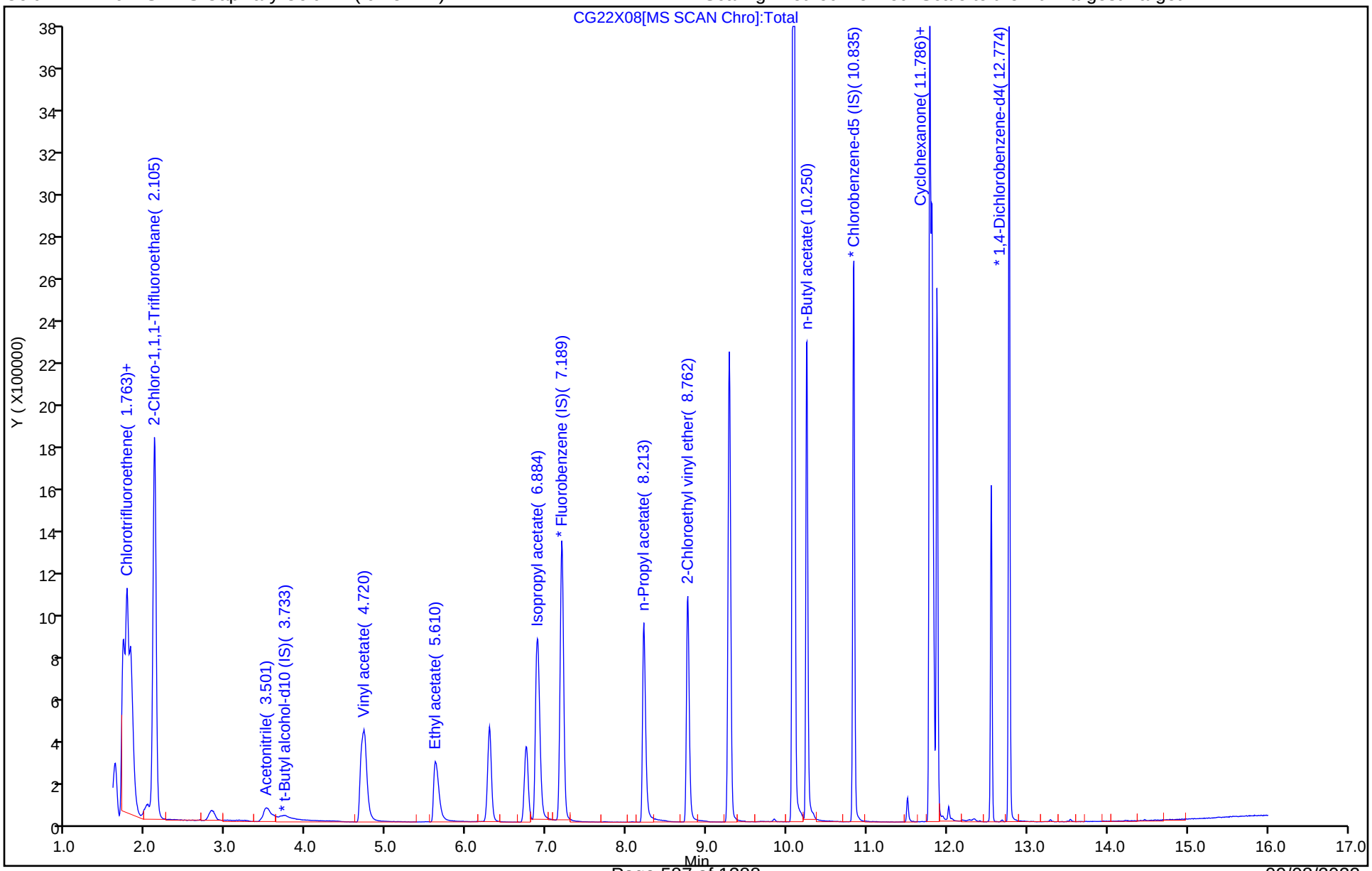
Report Date: 31-Aug-2022 08:31:19 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X08.D

Injection Date:	22-Aug-2022 18:43:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD25 Sm			Worklist Smp#:	9
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

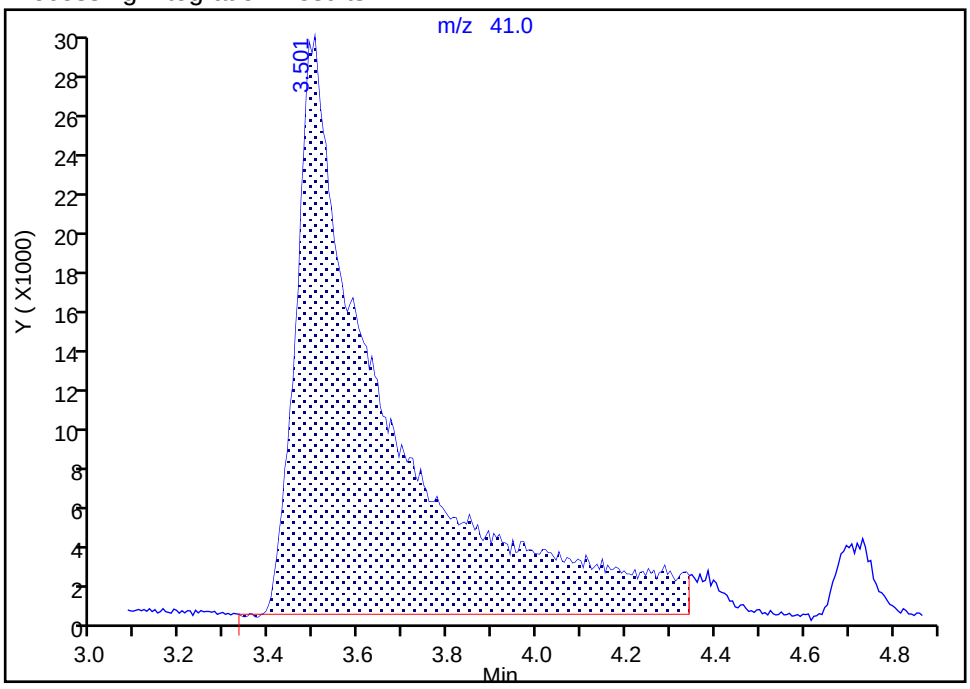
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X08.D
Injection Date: 22-Aug-2022 18:43:30 Instrument ID: 10193
Lims ID: IC STD25 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Acetonitrile, CAS: 75-05-8

Signal: 1

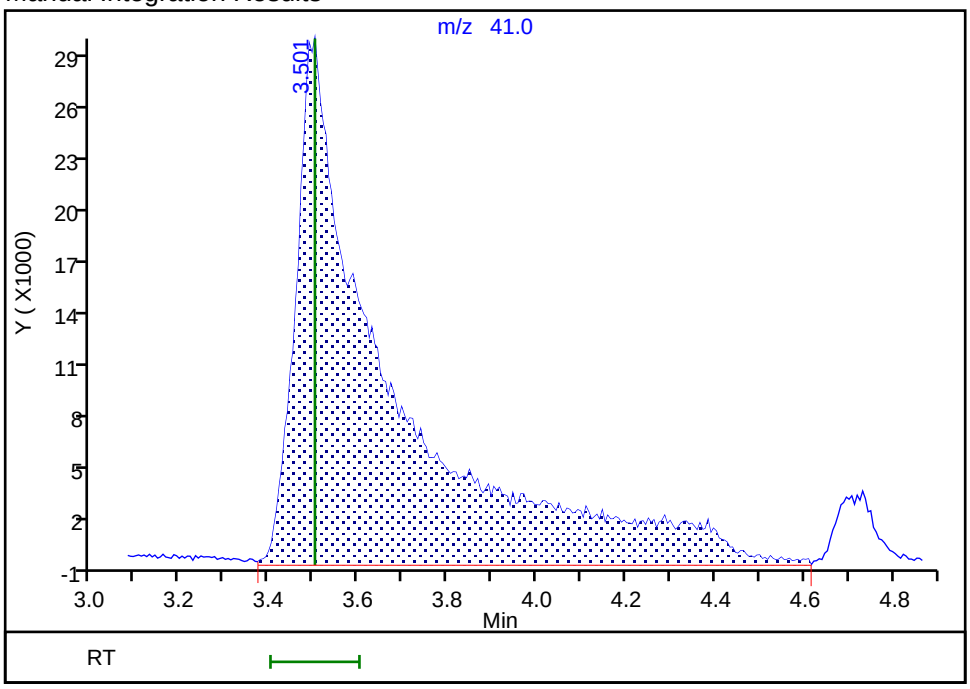
Processing Integration Results

RT: 3.50
Area: 402036
Amount: 124.4113
Amount Units: ug/l



Manual Integration Results

RT: 3.50
Area: 436874
Amount: 128.4332
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 08:39:43
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

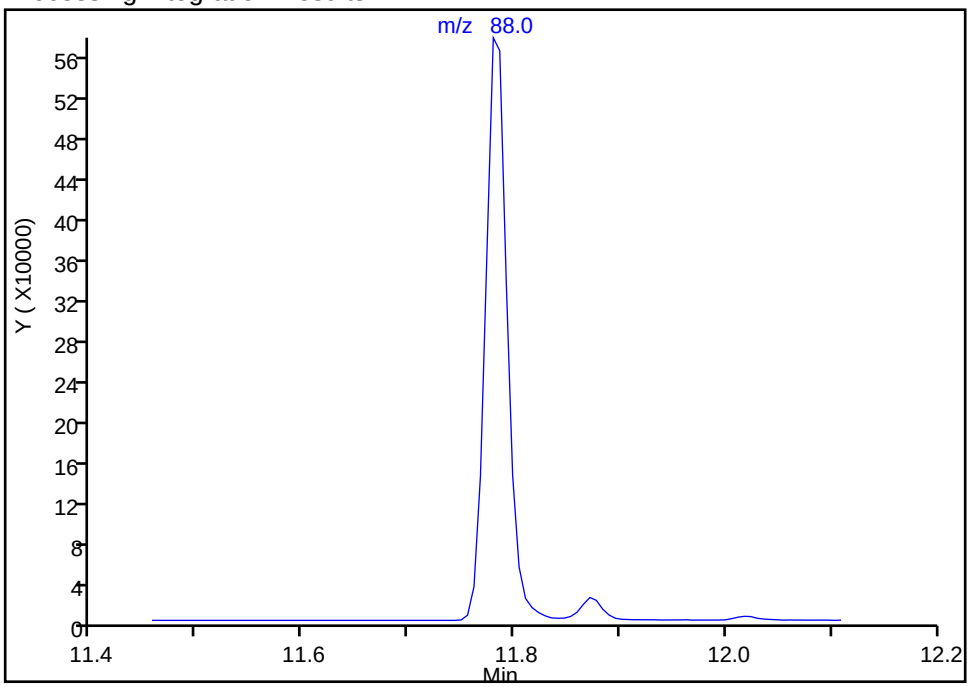
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X08.D				
Injection Date:	22-Aug-2022 18:43:30	Instrument ID:	10193		
Lims ID:	IC STD25 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

119 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

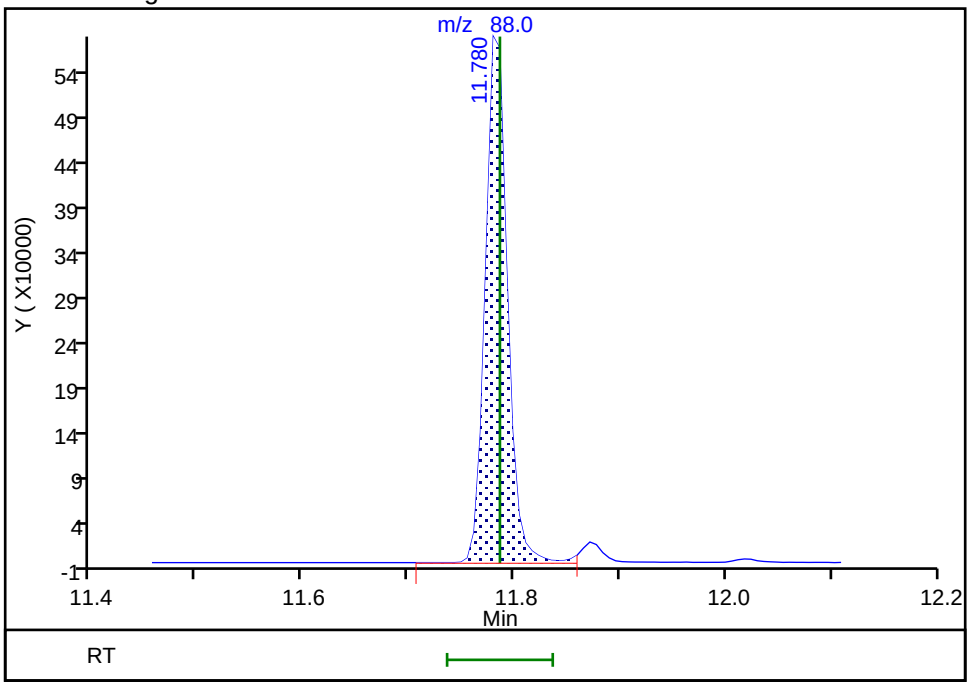
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.78
Area: 835163
Amount: 54.029354
Amount Units: ug/l



Reviewer: UCB5, 30-Aug-2022 16:07:07
Audit Action: Manually Integrated Audit Reason: Wrong peak

Calibration / Chlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

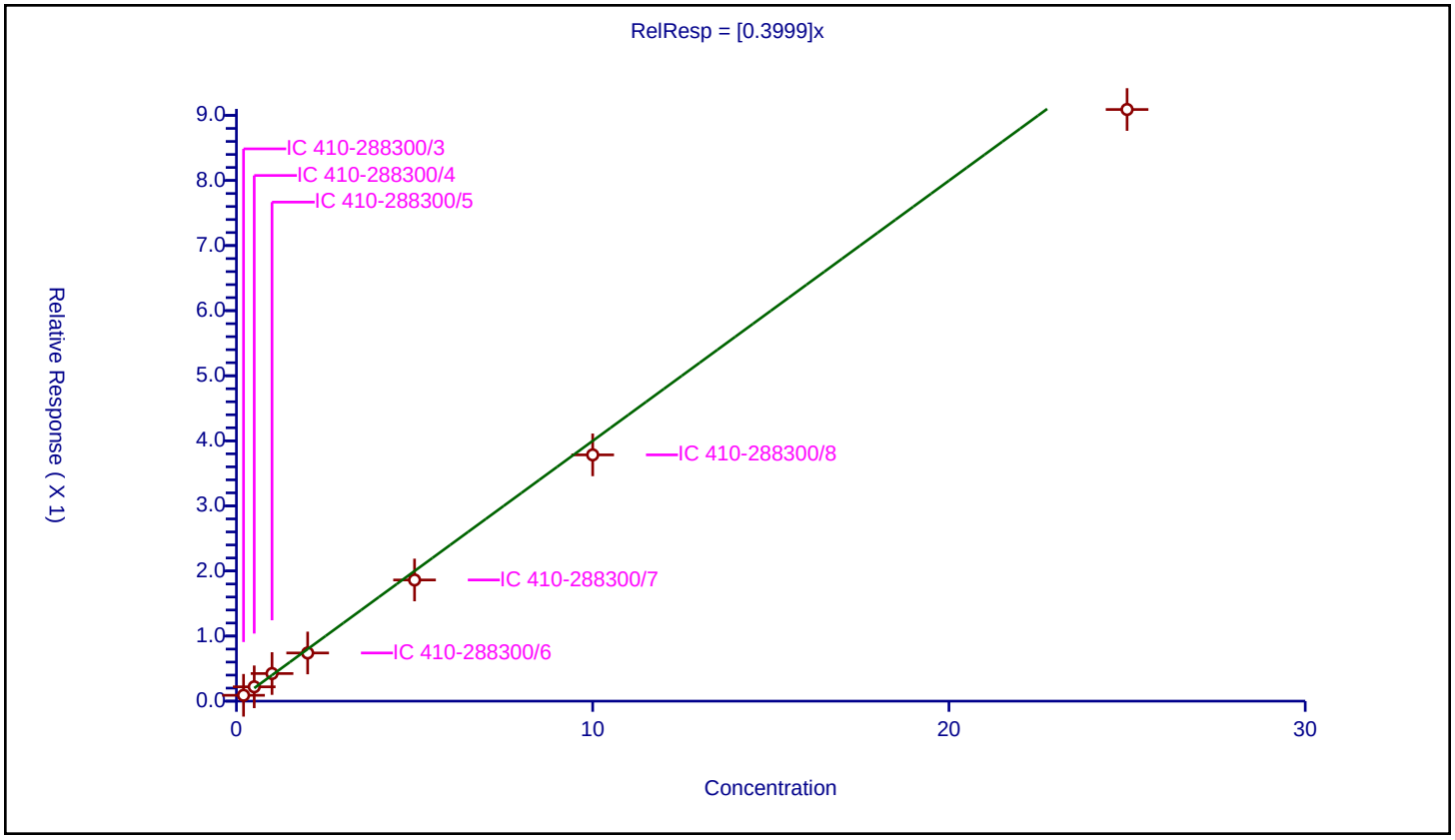
Curve Coefficients

Intercept:	0
Slope:	0.3999

Error Coefficients

Standard Error:	828000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/3	0.2	0.089967	10.0	2069764.0	0.449834	Y
2	IC 410-288300/4	0.5	0.220154	10.0	2051157.0	0.440308	Y
3	IC 410-288300/5	1.0	0.424326	10.0	2038951.0	0.424326	Y
4	IC 410-288300/6	2.0	0.740234	10.0	2020333.0	0.370117	Y
5	IC 410-288300/7	5.0	1.862027	10.0	2004756.0	0.372405	Y
6	IC 410-288300/8	10.0	3.784048	10.0	2024509.0	0.378405	Y
7	IC 410-288300/9	25.0	9.090777	10.0	2014203.0	0.363631	Y



Calibration / Dimethyl ether

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

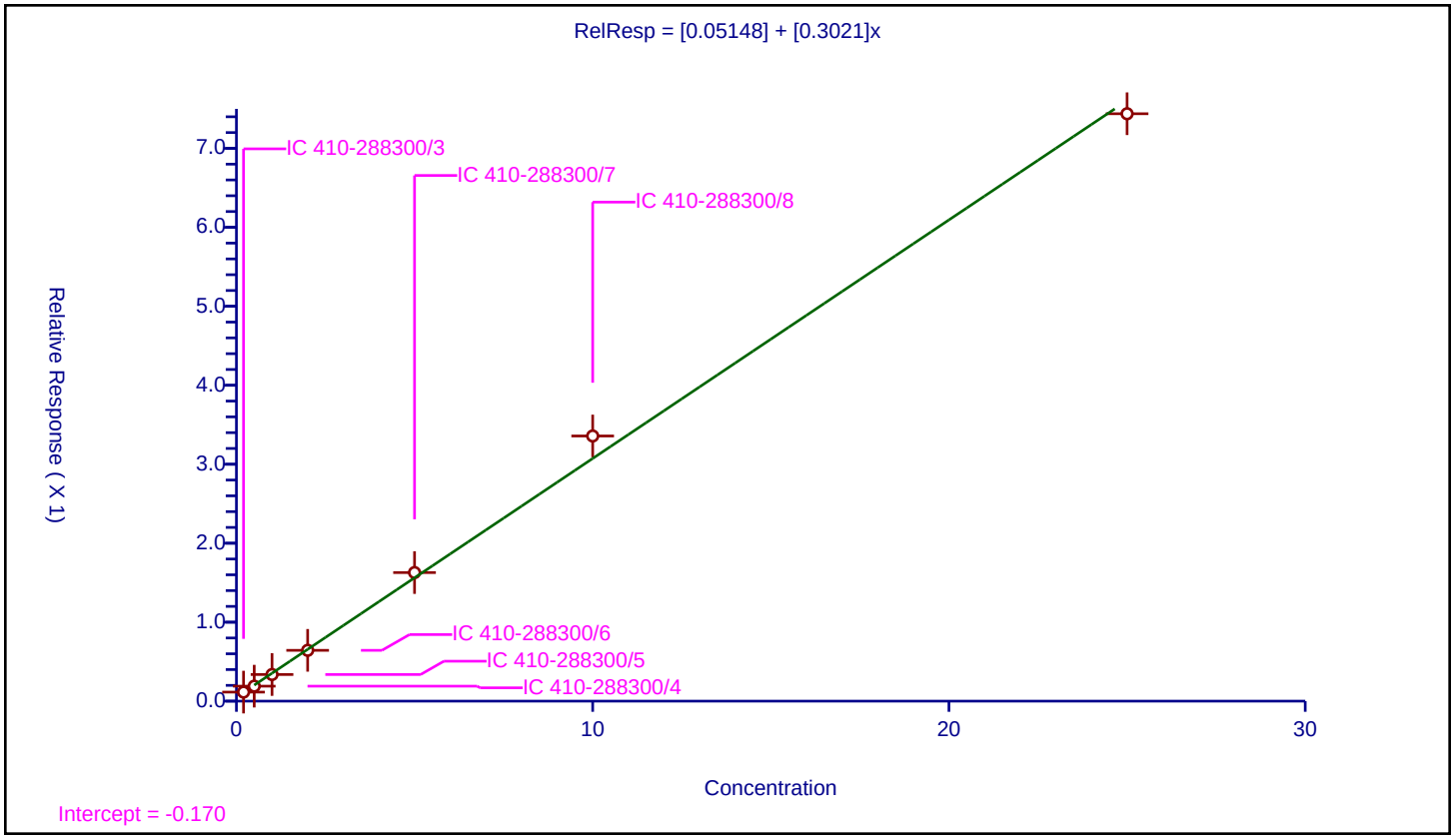
Curve Coefficients

Intercept:	0.05148
Slope:	0.3021

Error Coefficients

Standard Error:	753000
Relative Standard Error:	6.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/3	0.2	0.114515	10.0	2069764.0	0.572577	Y
2	IC 410-288300/4	0.5	0.189859	10.0	2051157.0	0.379717	Y
3	IC 410-288300/5	1.0	0.33711	10.0	2038951.0	0.33711	Y
4	IC 410-288300/6	2.0	0.643201	10.0	2020333.0	0.3216	Y
5	IC 410-288300/7	5.0	1.628303	10.0	2004756.0	0.325661	Y
6	IC 410-288300/8	10.0	3.35798	10.0	2024509.0	0.335798	Y
7	IC 410-288300/9	25.0	7.438625	10.0	2014203.0	0.297545	Y



Calibration / Acetonitrile

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

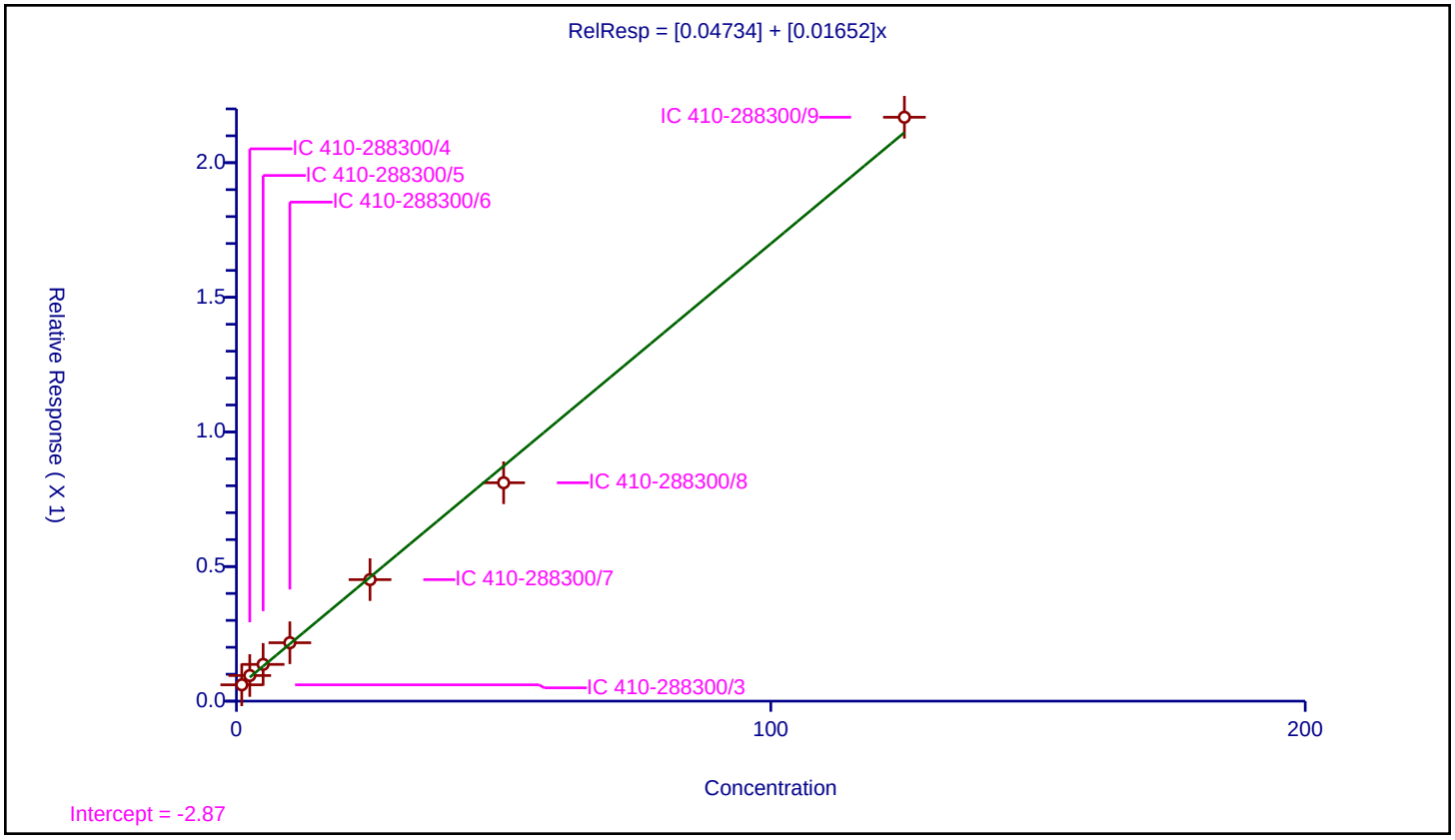
Curve Coefficients

Intercept:	0.04734
Slope:	0.01652

Error Coefficients

Standard Error:	214000
Relative Standard Error:	12.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/3	1.0	0.060669	10.0	2069764.0	0.060669	Y
2	IC 410-288300/4	2.5	0.095098	10.0	2051157.0	0.038039	Y
3	IC 410-288300/5	5.0	0.136521	10.0	2038951.0	0.027304	Y
4	IC 410-288300/6	10.0	0.216949	10.0	2020333.0	0.021695	Y
5	IC 410-288300/7	25.0	0.451412	10.0	2004756.0	0.018056	Y
6	IC 410-288300/8	50.0	0.811258	10.0	2024509.0	0.016225	Y
7	IC 410-288300/9	125.0	2.168967	10.0	2014203.0	0.017352	Y



Calibration / Vinyl acetate

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

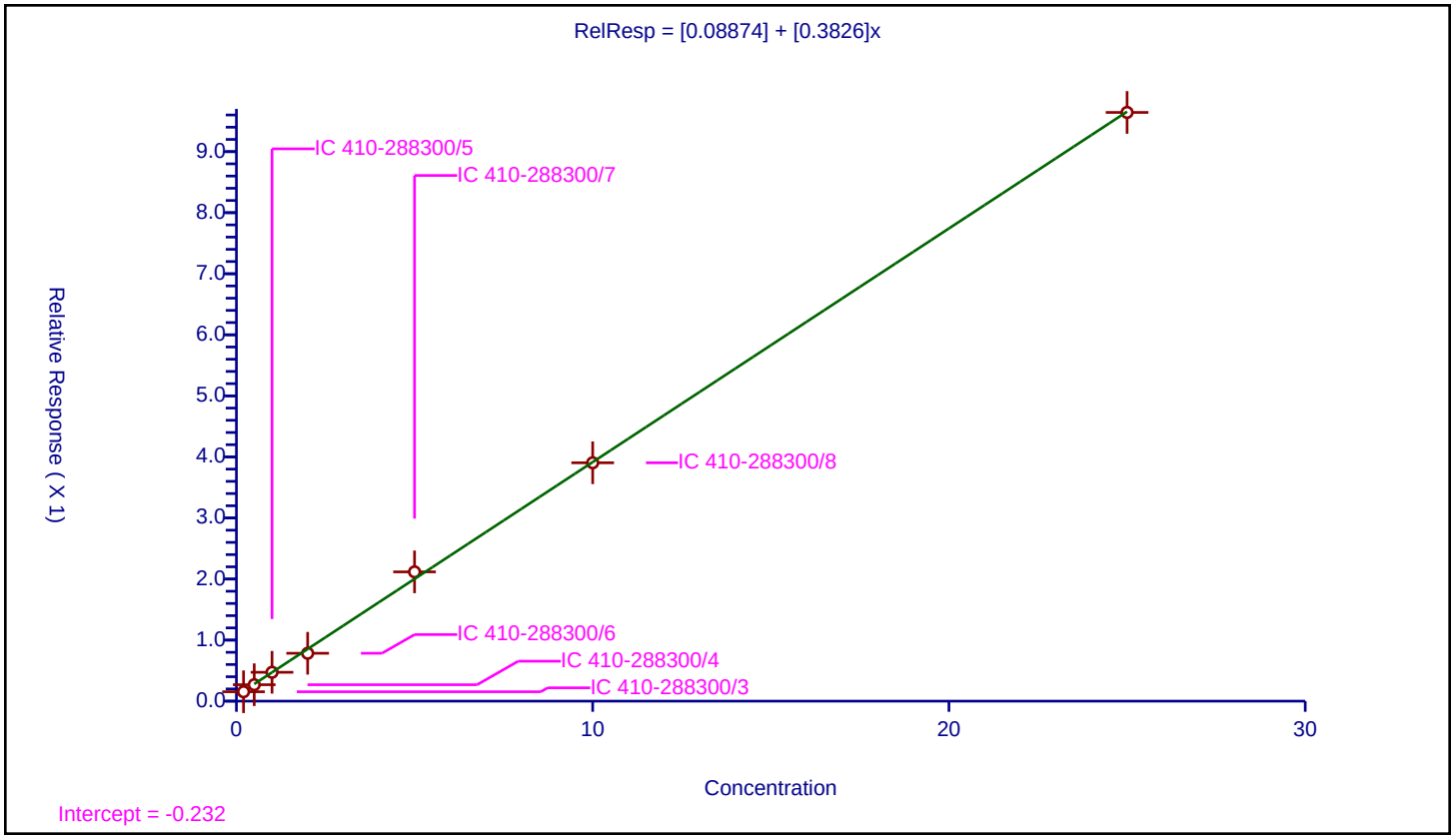
Curve Coefficients

Intercept:	0.08874
Slope:	0.3826

Error Coefficients

Standard Error:	961000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/3	0.2	0.1538	10.0	2069764.0	0.769001	Y
2	IC 410-288300/4	0.5	0.268892	10.0	2051157.0	0.537784	Y
3	IC 410-288300/5	1.0	0.472434	10.0	2038951.0	0.472434	Y
4	IC 410-288300/6	2.0	0.784217	10.0	2020333.0	0.392109	Y
5	IC 410-288300/7	5.0	2.11721	10.0	2004756.0	0.423442	Y
6	IC 410-288300/8	10.0	3.904073	10.0	2024509.0	0.390407	Y
7	IC 410-288300/9	25.0	9.642112	10.0	2014203.0	0.385684	Y



Calibration / Ethyl acetate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

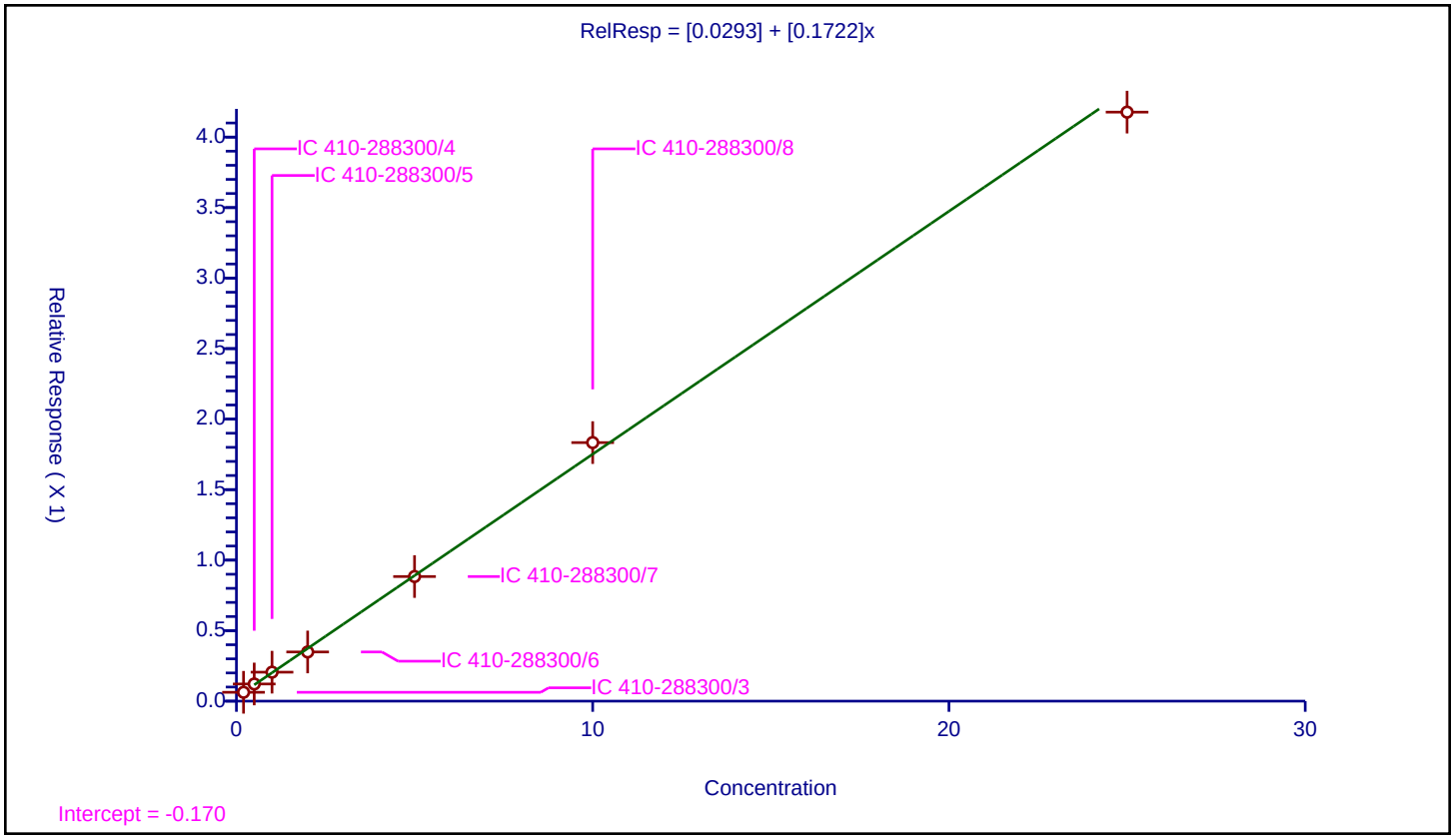
Curve Coefficients

Intercept:	0.0293
Slope:	0.1722

Error Coefficients

Standard Error:	421000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/3	0.2	0.062814	10.0	2069764.0	0.31407	Y
2	IC 410-288300/4	0.5	0.121751	10.0	2051157.0	0.243502	Y
3	IC 410-288300/5	1.0	0.205478	10.0	2038951.0	0.205478	Y
4	IC 410-288300/6	2.0	0.348799	10.0	2020333.0	0.174399	Y
5	IC 410-288300/7	5.0	0.883694	10.0	2004756.0	0.176739	Y
6	IC 410-288300/8	10.0	1.833551	10.0	2024509.0	0.183355	Y
7	IC 410-288300/9	25.0	4.177057	10.0	2014203.0	0.167082	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

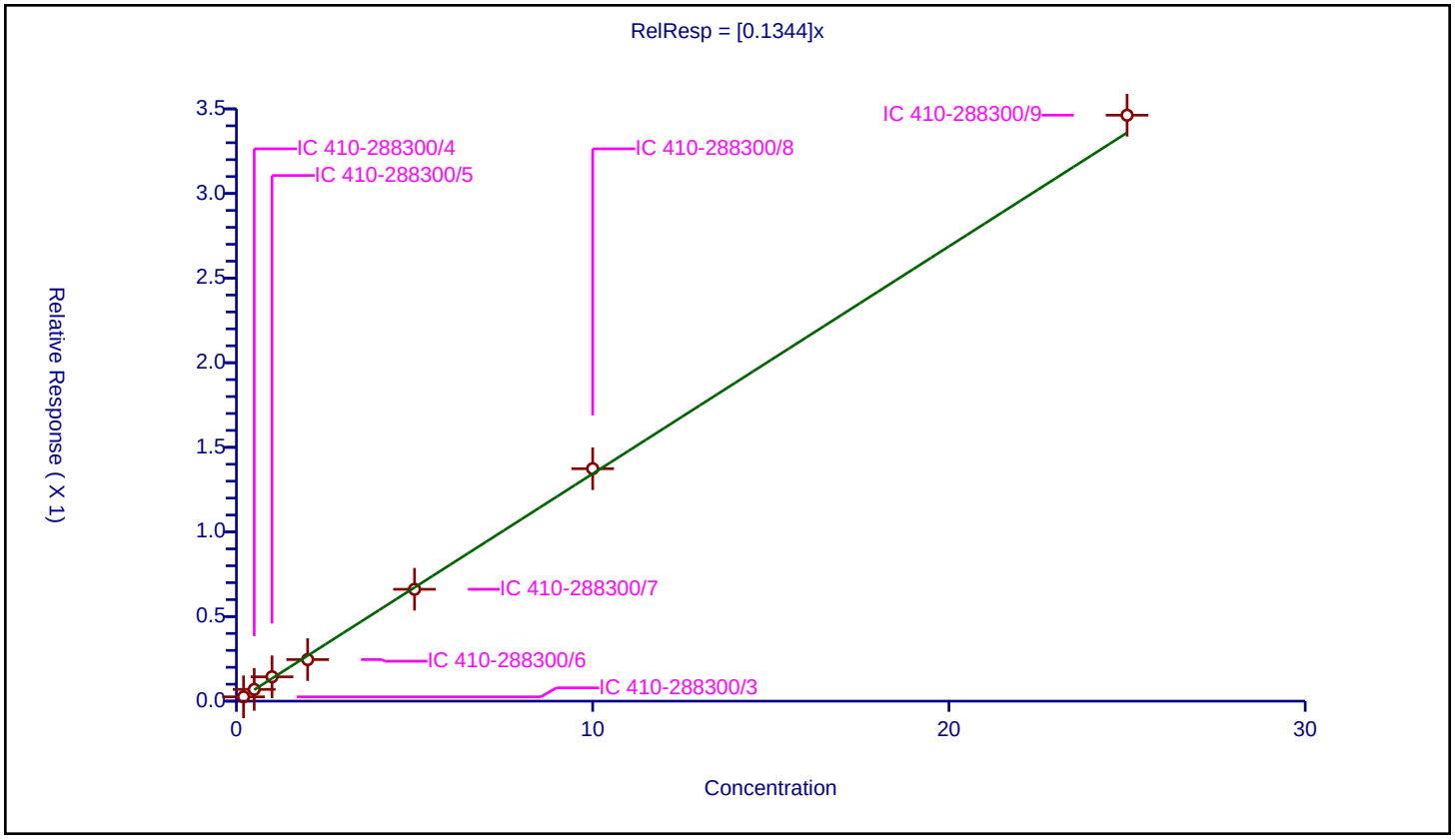
Curve Coefficients

Intercept:	0
Slope:	0.1344

Error Coefficients

Standard Error:	312000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/3	0.2	0.025389	10.0	2069764.0	0.126947	Y
2	IC 410-288300/4	0.5	0.069424	10.0	2051157.0	0.138848	Y
3	IC 410-288300/5	1.0	0.143858	10.0	2038951.0	0.143858	Y
4	IC 410-288300/6	2.0	0.245682	10.0	2020333.0	0.122841	Y
5	IC 410-288300/7	5.0	0.661123	10.0	2004756.0	0.132225	Y
6	IC 410-288300/8	10.0	1.373706	10.0	2024509.0	0.137371	Y
7	IC 410-288300/9	25.0	3.46263	10.0	2014203.0	0.138505	Y



Calibration / cis-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

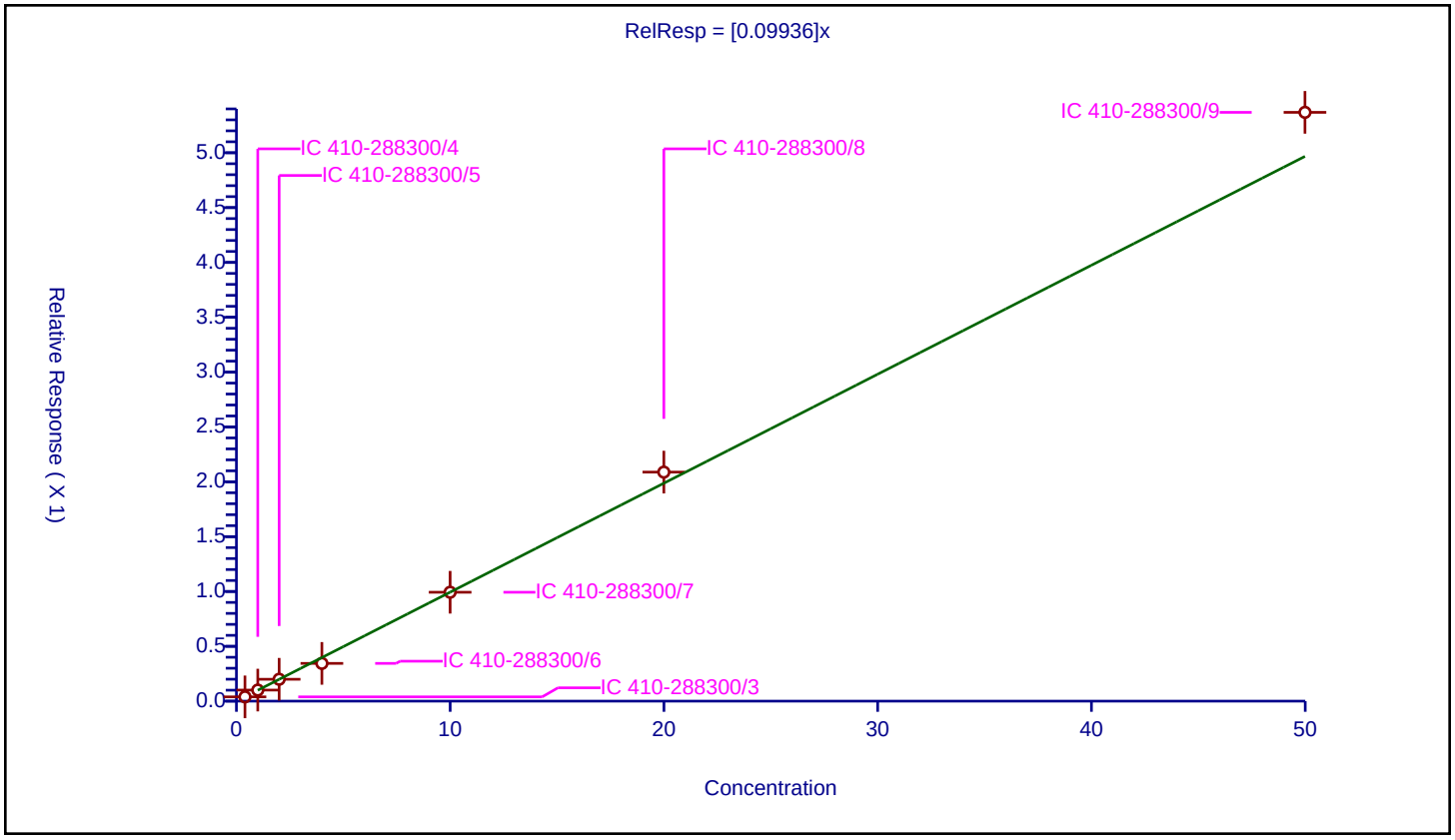
Curve Coefficients

Intercept:	0
Slope:	0.09936

Error Coefficients

Standard Error:	372000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/3	0.399907	0.039036	10.0	1586211.0	0.097614	Y
2	IC 410-288300/4	0.999769	0.100864	10.0	1582930.0	0.100887	Y
3	IC 410-288300/5	1.999537	0.199576	10.0	1573382.0	0.099811	Y
4	IC 410-288300/6	3.999074	0.344208	10.0	1551822.0	0.086072	Y
5	IC 410-288300/7	9.997686	0.992963	10.0	1543904.0	0.099319	Y
6	IC 410-288300/8	19.995372	2.088319	10.0	1553053.0	0.10444	Y
7	IC 410-288300/9	49.98843	5.368496	10.0	1555674.0	0.107395	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

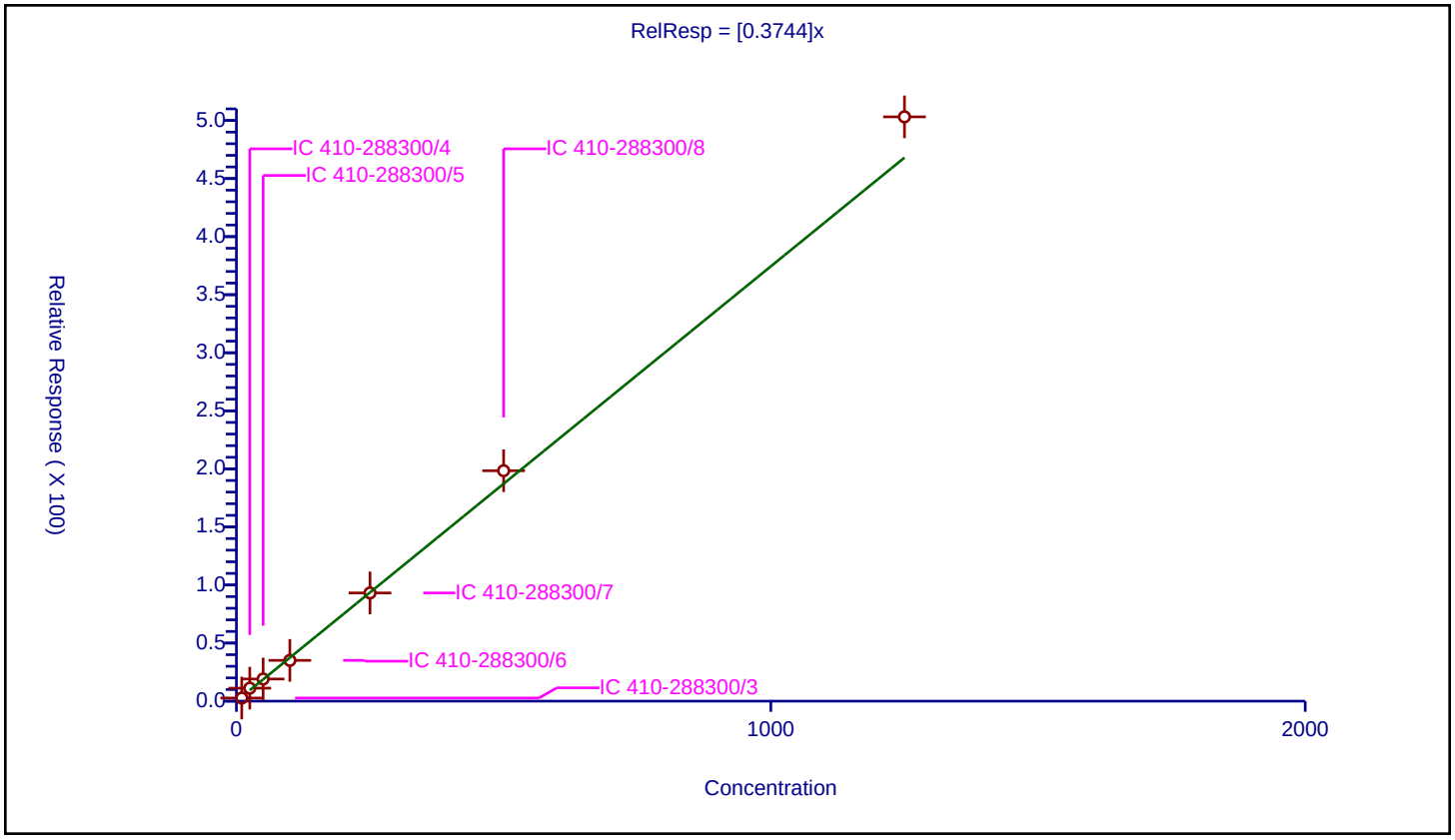
Curve Coefficients

Intercept:	0
Slope:	0.3744

Error Coefficients

Standard Error:	655000
Relative Standard Error:	14.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/3	10.000648	2.6937	50.0	146954.0	0.269353	Y
2	IC 410-288300/4	25.00162	11.170573	50.0	140145.0	0.446794	Y
3	IC 410-288300/5	50.003239	19.079827	50.0	143636.0	0.381572	Y
4	IC 410-288300/6	100.006478	35.103449	50.0	128372.0	0.351012	Y
5	IC 410-288300/7	250.016196	93.169434	50.0	130670.0	0.372654	Y
6	IC 410-288300/8	500.032392	198.419563	50.0	142081.0	0.396813	Y
7	IC 410-288300/9	1250.08098	503.13874	50.0	146922.0	0.402485	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-288300/13	CG22X12.D
Level 2	IC 410-288300/14	CG22X13.D
Level 3	IC 410-288300/15	CG22X14.D
Level 4	IC 410-288300/16	CG22X15.D
Level 5	IC 410-288300/17	CG22X16.D
Level 6	ICIS 410-288300/18	CG22X17.D
Level 7	IC 410-288300/19	CG22X18.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2752 0.2773	0.2748 0.2802	0.2940	0.2972	0.2988	Ave		0.2854			0.1000	3.8		20.0			
Chloromethane	0.3855 0.3532	0.4080 0.3535	0.3876	0.3801	0.3721	Ave		0.3771			0.1000	5.2		20.0			
Vinyl chloride	0.3490 0.3360	0.3541 0.3406	0.3416	0.3625	0.3655	Ave		0.3499			0.1000	3.2		20.0			
1,3-Butadiene	0.4023 0.3559	0.3593 0.3566	0.3730	0.3856	0.3861	Ave		0.3741				4.8		20.0			
Bromomethane	0.2352 0.2251	0.2368 0.2278	0.2307	0.2367	0.2372	Ave		0.2328			0.1000	2.1		20.0			
Chloroethane	0.2084 0.1920	0.2122 0.1914	0.2097	0.2054	0.2049	Ave		0.2034			0.1000	4.1		20.0			
Dichlorofluoromethane	0.4670 0.4442	0.5114 0.4487	0.4692	0.4750	0.4730	Ave		0.4698			0.1000	4.7		20.0			
Trichlorofluoromethane	0.3757 0.3865	0.3873 0.3973	0.3987	0.4168	0.4162	Ave		0.3969			0.1000	3.9		20.0			
Ethyl ether	0.1977 0.2030	0.2014 0.2027	0.1993	0.2147	0.2059	Ave		0.2035				2.7		20.0			
Freon 123a	0.3350 0.2906	0.3199 0.2979	0.3037	0.3099	0.3071	Ave		0.3092				4.7		20.0			
Acrolein	2.1221 2.2195	2.4146 2.2615	2.4911	2.4841	2.0524	Ave		2.2922				7.6		20.0			
1,1-Dichloroethene	0.2210 0.2113	0.2380 0.2138	0.2157	0.2195	0.2206	Ave		0.2200			0.1000	4.0		20.0			
Acetone	2.9885 2.2622	3.1775 2.2235	2.6155	2.6101	2.1536	Ave		2.5758			0.1000	15.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Freon 113	0.1916 0.1968	0.2121 0.2069	0.2090	0.2133	0.2205	Ave		0.2072			0.1000	4.8		20.0			
Methyl iodide	0.3774 0.3999	0.4274 0.4027	0.3985	0.4149	0.4133	Ave		0.4049				3.9		20.0			
Carbon disulfide	0.6129 0.6820	0.7060 0.6962	0.6697	0.6911	0.7050	Ave		0.6804			0.1000	4.8		20.0			
Methyl acetate	7.9880 7.1756	7.6361 7.5985	7.2101	9.0682	6.4689	Ave		7.5922			0.1000	10.6		20.0			
Allyl chloride	0.3904 0.3978	0.4276 0.4021	0.3978	0.4112	0.4126	Ave		0.4056				3.1		20.0			
Methylene Chloride	0.2544 0.2549	0.2786 0.2540	0.2582	0.2641	0.2616	Ave		0.2608			0.1000	3.3		20.0			
t-Butyl alcohol	0.9523 0.9491	1.2870 0.9653	1.2271	1.0620	0.8519	Ave		1.0421				15.3		20.0			
Acrylonitrile	3.5906 3.6644	4.0883 3.7096	4.3571	4.1274	3.6077	Ave		3.8779				7.9		20.0			
Methyl tertiary butyl ether	0.6303 0.6625	0.7000 0.6606	0.6539	0.6888	0.6804	Ave		0.6681			0.1000	3.5		20.0			
trans-1,2-Dichloroethene	0.2591 0.2625	0.2911 0.2645	0.2688	0.2772	0.2736	Ave		0.2710			0.1000	4.0		20.0			
n-Hexane	0.3507 0.3509	0.3865 0.3628	0.3548	0.3567	0.3823	Ave		0.3635				4.1		20.0			
1,1-Dichloroethane	0.4631 0.4903	0.5245 0.4926	0.4979	0.5136	0.5102	Ave		0.4989			0.2000	4.0		20.0			
di-Isopropyl ether	0.8681 0.9014	0.9679 0.9076	0.9061	0.9369	0.9321	Ave		0.9172				3.5		20.0			
2-Chloro-1,3-butadiene	0.3663 0.3876	0.4052 0.3969	0.3856	0.3913	0.3950	Ave		0.3897				3.1		20.0			
Ethyl t-butyl ether	0.7982 0.8443	0.8720 0.8425	0.8412	0.8648	0.8667	Ave		0.8471				3.0		20.0			
2-Butanone	4.9464 5.0610	5.2654 5.1543	5.6740	5.6960	4.9868	Ave		5.2548			0.1000	5.9		20.0			
cis-1,2-Dichloroethene	0.2696 0.2929	0.3197 0.2928	0.2977	0.3006	0.3051	Ave		0.2969			0.1000	5.1		20.0			
2,2-Dichloropropane	0.3775 0.3845	0.4037 0.3891	0.3862	0.4154	0.4015	Ave		0.3940				3.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Propionitrile	1.1450 1.3123	1.3681 1.2486	1.3794	1.3619	1.3394	Ave		1.3078				6.5		20.0			
Methacrylonitrile	4.6167 5.4468	5.4630 5.7588	6.0657	6.0771	5.4391	Ave		5.5525				9.0		20.0			
Bromochloromethane	0.1172 0.1301	0.1407 0.1321	0.1312	0.1345	0.1348	Ave		0.1315				5.5		20.0			
Tetrahydrofuran	1.4977 1.4056	1.4663 1.4698	1.6355	1.5486	1.4014	Ave		1.4893				5.5		20.0			
Chloroform	0.4552 0.4597	0.4893 0.4634	0.4731	0.4761	0.4738	Ave		0.4701			0.2000	2.5		20.0			
1,1,1-Trichloroethane	0.3727 0.4030	0.4286 0.4101	0.4182	0.4216	0.4219	Ave		0.4109			0.1000	4.6		20.0			
Cyclohexane	0.4187 0.4533	0.4784 0.4762	0.4574	0.4665	0.4857	Ave		0.4623			0.1000	4.9		20.0			
Carbon tetrachloride	0.3080 0.3456	0.3477 0.3604	0.3394	0.3538	0.3601	Ave		0.3450			0.1000	5.2		20.0			
1,1-Dichloropropene	0.3706 0.3766	0.4060 0.3867	0.3735	0.3848	0.3903	Ave		0.3841				3.1		20.0			
Isobutyl alcohol	0.3996 0.3545	0.3931 0.3438	0.3863	0.3671	0.3448	Ave		0.3699				6.3		20.0			
Benzene	1.1203 1.1231	1.2015 1.1354	1.1375	1.1646	1.1732	Ave		1.1508			0.5000	2.6		20.0			
1,2-Dichloroethane	0.3038 0.2783	0.3143 0.2777	0.2928	0.2976	0.2764	Ave		0.2916			0.1000	5.1		20.0			
t-Amyl methyl ether	0.7010 0.7657	0.7912 0.7629	0.7629	0.7863	0.7779	Ave		0.7640				3.9		20.0			
n-Heptane	0.4143 0.4053	0.4265 0.4061	0.4011	0.4141	0.4253	Ave		0.4132				2.4		20.0			
n-Butanol	0.2216 0.3233	0.2946 0.3099	0.3123	0.2933	0.3213	Ave		0.2966				11.8		20.0			
Trichloroethene	0.2727 0.2916	0.3101 0.2957	0.2864	0.3062	0.3026	Ave		0.2950			0.2000	4.4		20.0			
Methylcyclohexane	0.4466 0.4837	0.4994 0.5039	0.4809	0.4961	0.5239	Ave		0.4906			0.1000	4.9		20.0			
1,2-Dichloropropane	0.2859 0.3011	0.3225 0.3010	0.3045	0.3147	0.3108	Ave		0.3058			0.1000	3.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl methacrylate	7.2082 10.408	9.7657 11.513	11.022	10.900	10.051	Ave		10.124				14.0		20.0			
1,4-Dioxane	0.0214 0.0711	0.0811 0.0613	0.0689	0.0737	0.0744	Qua	-0.315	0.0787	-0.000014		0.0050				1.0000		0.9900
Dibromomethane	0.1328 0.1340	0.1415 0.1347	0.1328	0.1404	0.1387	Ave		0.1364				2.7		20.0			
Bromodichloromethane	0.3011 0.3385	0.3424 0.3436	0.3330	0.3472	0.3452	Ave		0.3358			0.2000	4.8		20.0			
2-Nitropropane	3.1099 2.8091	2.7882 3.0020	2.8097	2.9413	2.7159	Ave		2.8823				4.8		20.0			
cis-1,3-Dichloropropene	0.3819 0.4595	0.4469 0.4596	0.4226	0.4468	0.4643	Ave		0.4402			0.2000	6.6		20.0			
4-Methyl-2-pentanone	12.118 14.041	13.968 14.880	15.142	15.328	14.040	Ave		14.217			0.1000	7.6		20.0			
Toluene	0.9195 0.9535	1.0057 0.9763	0.9723	0.9903	0.9886	Ave		0.9723			0.4000	2.9		20.0			
trans-1,3-Dichloropropene	0.3901 0.4922	0.4556 0.5051	0.4579	0.4806	0.4931	Ave		0.4678			0.1000	8.3		20.0			
Ethyl methacrylate	0.3232 0.4004	0.3809 0.4029	0.3578	0.3843	0.3978	Ave		0.3782				7.6		20.0			
1,1,2-Trichloroethane	0.2565 0.2656	0.2782 0.2645	0.2690	0.2787	0.2726	Ave		0.2693			0.1000	2.9		20.0			
Tetrachloroethene	0.4264 0.4479	0.4612 0.4555	0.4481	0.4651	0.4668	Ave		0.4530			0.2000	3.1		20.0			
1,3-Dichloropropane	0.4333 0.4632	0.4764 0.4582	0.4633	0.4802	0.4806	Ave		0.4650				3.6		20.0			
2-Hexanone	7.8205 10.257	9.3596 11.049	10.917	10.848	10.232	Ave		10.069			0.1000	11.4		20.0			
Dibromochloromethane	0.2795 0.3362	0.3236 0.3403	0.3078	0.3258	0.3386	Ave		0.3217				6.8		20.0			
1,2-Dibromoethane	0.2248 0.2588	0.2609 0.2585	0.2454	0.2638	0.2615	Ave		0.2534			0.1000	5.5		20.0			
1-Chlorohexane	0.5806 0.5324	0.5701 0.5492	0.5373	0.5551	0.5548	Ave		0.5542				3.1		20.0			
Chlorobenzene	1.0979 1.1281	1.1928 1.1373	1.1468	1.1657	1.1590	Ave		1.1468			0.5000	2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1,2-Tetrachloroethane	0.3515 0.3839	0.3829 0.3914	0.3663	0.3916	0.3921	Ave		0.3800				4.1		20.0			
Ethylbenzene	1.7277 1.9027	1.9296 1.9309	1.8711	1.9412	1.9328	Ave		1.8909			0.1000	4.0		20.0			
m&p-Xylene	0.6904 0.7610	0.7628 0.7722	0.7627	0.7763	0.7796	Ave		0.7579			0.1000	4.0		20.0			
o-Xylene	0.6847 0.7547	0.7718 0.7680	0.7485	0.7661	0.7764	Ave		0.7529			0.3000	4.2		20.0			
Styrene	1.1127 1.2670	1.2144 1.2868	1.1927	1.2728	1.2787	Ave		1.2321			0.3000	5.2		20.0			
Bromoform	0.1592 0.2001	0.1837 0.2082	0.1743	0.1903	0.1977	Ave		0.1877			0.1000	8.9		20.0			
Isopropylbenzene	1.7306 1.9259	1.9519 1.9365	1.9162	1.9512	1.9799	Ave		1.9132			0.1000	4.3		20.0			
1,1,2,2-Tetrachloroethane	0.5441 0.5793	0.6318 0.5764	0.5990	0.6109	0.5972	Ave		0.5912			0.3000	4.7		20.0			
Bromobenzene	0.8027 0.8210	0.8742 0.8097	0.8309	0.8516	0.8305	Ave		0.8315				3.0		20.0			
trans-1,4-Dichloro-2-butene	0.1237 0.1461	0.1468 0.1482	0.1404	0.1476	0.1469	Ave		0.1428				6.2		20.0			
1,2,3-Trichloropropane	0.1543 0.1509	0.1625 0.1462	0.1573	0.1565	0.1549	Ave		0.1547				3.3		20.0			
N-Propylbenzene	3.6496 3.9560	4.1634 3.8577	4.0516	4.1202	4.1005	Ave		3.9856				4.6		20.0			
2-Chlorotoluene	0.8037 0.8244	0.8669 0.8112	0.8460	0.8485	0.8448	Ave		0.8351				2.7		20.0			
1,3,5-Trimethylbenzene	2.5659 2.8889	3.0020 2.8829	2.8619	2.9468	2.9411	Ave		2.8700				5.0		20.0			
4-Chlorotoluene	0.7788 0.8466	0.9051 0.8559	0.8563	0.8682	0.8863	Ave		0.8567				4.6		20.0			
tert-Butylbenzene	0.5865 0.6265	0.6350 0.6333	0.6286	0.6374	0.6830	Ave		0.6329				4.4		20.0			
Pentachloroethane	0.4083 0.5022	0.4690 0.5119	0.4631	0.4812	0.5110	Ave		0.4781				7.6		20.0			
1,2,4-Trimethylbenzene	2.6445 2.9974	3.1000 2.9834	3.0053	3.0574	3.0759	Ave		2.9806				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	3.2801 3.6384	3.7995 3.5896	3.7117	3.7431	3.7738	Ave		3.6480				4.9		20.0			
1,3-Dichlorobenzene	1.5906 1.6924	1.7774 1.6851	1.7159	1.7428	1.7277	Ave		1.7046			0.6000	3.5		20.0			
p-Isopropyltoluene	3.0038 3.2564	3.3544 3.2213	3.2351	3.3259	3.3345	Ave		3.2473				3.7		20.0			
1,4-Dichlorobenzene	1.6665 1.7320	1.8314 1.6890	1.7498	1.7659	1.7492	Ave		1.7405			0.5000	3.1		20.0			
1,2,3-Trimethylbenzene	1.2900 1.3358	1.4345 1.3324	1.3606	1.3863	1.3704	Ave		1.3586				3.4		20.0			
Benzyl chloride	0.1979 0.2631	0.2408 0.2667	0.2292	0.2495	0.2631	Ave		0.2443				10.1		20.0			
n-Butylbenzene	1.4751 1.6424	1.6800 1.6423	1.6435	1.6759	1.6924	Ave		1.6359				4.5		20.0			
1,2-Dichlorobenzene	1.4407 1.5679	1.6394 1.5565	1.5796	1.6091	1.5817	Ave		1.5679			0.4000	4.0		20.0			
1,2-Dibromo-3-Chloropropane	0.0734 0.0877	0.0860 0.0891	0.0729	0.0838	0.0912	Ave		0.0835			0.0500	8.9		20.0			
1,3,5-Trichlorobenzene	1.1868 1.3515	1.4213 1.3557	1.3332	1.3697	1.3810	Ave		1.3427				5.5		20.0			
1,2,4-Trichlorobenzene	0.9826 1.1686	1.1648 1.1821	1.1040	1.1460	1.1776	Ave		1.1322			0.2000	6.3		20.0			
Hexachlorobutadiene	0.5405 0.5839	0.6158 0.5823	0.5810	0.5964	0.5926	Ave		0.5847				3.9		20.0			
Naphthalene	1.5150 1.9258	1.7717 1.9498	1.7123	1.8096	1.9227	Ave		1.8010				8.6		20.0			
1,2,3-Trichlorobenzene	0.8010 0.9519	0.9042 0.9615	0.8833	0.9232	0.9603	Ave		0.9122				6.3		20.0			
Dibromofluoromethane (Surr)	0.2332 0.2342	0.2336 0.2353	0.2341	0.2321	0.2332	Ave		0.2337				0.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0488 0.0488	0.0487 0.0479	0.0475	0.0475	0.0471	Ave		0.0480				1.5		20.0			
Toluene-d8 (Surr)	1.3105 1.3164	1.3060 1.3350	1.3215	1.3199	1.3145	Ave		1.3177				0.7		20.0			
4-Bromofluorobenzene (Surr)	0.4860 0.4899	0.4836 0.4917	0.4880	0.4865	0.4876	Ave		0.4876				0.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-288300/13	CG22X12.D
Level 2	IC 410-288300/14	CG22X13.D
Level 3	IC 410-288300/15	CG22X14.D
Level 4	IC 410-288300/16	CG22X15.D
Level 5	IC 410-288300/17	CG22X16.D
Level 6	ICIS 410-288300/18	CG22X17.D
Level 7	IC 410-288300/19	CG22X18.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	10972 551391	27289 1410396	58173	117468	293800	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	15369 702218	40512 1779819	76690	150217	365920	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	13917 668019	35160 1714605	67575	143251	359428	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	16039 707641	35671 1795374	73797	152389	379643	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	9377 447646	23511 1146630	45642	93538	233256	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	8309 381713	21071 963317	41484	81164	201473	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	18620 883302	50779 2258999	92839	187748	465102	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	14979 768569	38458 1999820	78889	164716	409286	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	7885 403748	20000 1020863	39448	84873	202566	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	13359 577792	31764 1499422	60094	122486	302027	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	57965 2878823	159412 6770476	281866	584522	1353279	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	8812 420214	23632 1076196	42670	86755	216909	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	16327	41957	59190	122838	284011	2.00	5.00	10.0	20.0	50.0

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Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			586839	1331375				100	250			
Freon 113	FB	Ave	7638 391381	21059 1041622	41348	84297	216833	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	15047 795081	42438 2027086	78848	163985	406462	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	24439 1356041	70097 3504627	132499	273138	693267	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Ave	4364 186144	10083 454980	16317	42677	85311	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	15566 790937	42455 2024085	78695	162533	405717	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10145 506891	27666 1278708	51086	104369	257199	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	10405 492429	33987 1155957	55542	99960	224704	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	4904 237647	13496 555307	24651	48561	118945	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tertiary butyl ether	FB	Ave	25132 1317373	69506 3325509	129375	272217	669039	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	10331 522027	28906 1331383	53191	109559	269017	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	13985 697755	38374 1826385	70201	140977	375986	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	18464 974846	52080 2479604	98507	203004	501664	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	34613 1792406	96103 4568886	179263	370270	916612	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	14606 770625	40233 1997924	76284	154635	388421	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	31825 1678851	86577 4241387	166424	341793	852261	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone	TBAd 10	Ave	27023	69526	128408	268068	657655	2.00	5.00	10.0	20.0	50.0

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SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1312882	3086272				100	250			
cis-1,2-Dichloroethene	FB	Ave	10751 582324	31743 1473992	58902	118805	300063	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	15053 764497	40087 1959021	76415	164164	394862	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	12511 680863	36131 1495301	62435	128191	353271	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	25222 1412977	72136 3448269	137272	286005	717302	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	4671 258754	13968 664992	25966	53176	132568	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	4091 182320	9681 440047	18506	36440	92407	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	18150 914023	48580 2332920	93605	188148	465915	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	14862 801358	42559 2064391	82747	166622	414918	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	16693 901372	47497 2397181	90500	184387	477600	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	12280 687136	34521 1814532	67141	139848	354085	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	14777 748768	40312 1946573	73903	152069	383816	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	10915 459860	25955 1029246	43717	86391	227353	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	44669 2233141	119293 5715737	225053	460268	1153651	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	12113 553463	31210 1397962	57929	117609	271805	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	27951 1522599	78561 3840751	150940	310776	764987	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	16517	42342	79351	163653	418190	0.200	0.500	1.00	2.00	5.00

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ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			805860	2044456				10.0	25.0			
n-Butanol	TBAd 10	Ave	10591 733904	34033 1623603	61837	120790	370766	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	10874 579842	30791 1488472	56668	121006	297519	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	17806 961769	49585 2536741	95136	196076	515209	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	11398 598697	32023 1515441	60237	124387	305654	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	3938 269988	12895 689382	24944	51296	132554	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Qua	585 92194	5353 183524	7798	17348	49073	10.0 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	5293 266367	14045 678275	26280	55503	136357	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	12007 673095	33992 1729627	65882	137205	339449	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	8495 364359	18408 898761	31793	69212	179082	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	15229 913681	44371 2313525	83617	176574	456604	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone	TBAd 10	Ave	66201 3642524	184444 8909564	342665	721350	1851510	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	28361 1452698	77261 3764778	146835	299255	752839	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	12033 749823	34999 1947599	69149	145243	375505	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	9967	29264	54040	116133	302935	0.200	0.500	1.00	2.00	5.00

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Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			610058	1553687				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	7912 404572	21374 1020101	40627	84210	207585	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	13152 682338	35433 1756341	67675	140565	355454	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	13365 705748	36600 1766895	69965	145113	366005	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	42725 2660875	123588 6616151	247070	510532	1349331	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	8621 512238	24859 1312207	46481	98443	257820	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane	CBZd 5	Ave	6933 394261	20044 996887	37064	79714	199120	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	17906 811122	43798 2117826	81147	167760	422503	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	33861 1718683	91634 4385755	173193	352259	882611	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	10842 584797	29412 1509448	55325	118338	298570	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	53287 2898705	148239 7445839	282580	586626	1471927	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	42590 2318735	117197 5955366	230360	469217	1187447	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	21117	59292	113031	231506	591255	0.200	0.500	1.00	2.00	5.00

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SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1149776	2961699				10.0	25.0			
Styrene	CBZd 5	Ave	34317 1930190	93291 4961998	180116	384630	973785	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	4911 304772	14114 802862	26326	57517	150577	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	53375 2934036	149953 7467245	289388	589633	1507786	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	9593 521855	27538 1335844	51538	106640	264788	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	14153 739659	38100 1876425	71493	148658	368252	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	21808 1316632	63969 3434592	120833	257721	651340	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2720 135978	7083 338831	13537	27317	68664	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	64351 3563972	181457 8940228	348619	719215	1818248	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	14171 742687	37785 1879996	72794	148112	374593	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	45244 2602668	130841 6681135	246256	514383	1304146	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	13732 762667	39446 1983516	73677	151548	392996	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	10341	27675	54084	111261	302846	0.200	0.500	1.00	2.00	5.00

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Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

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ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			564379	1467578				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	7199 452438	20442 1186327	39851	83992	226588	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	46630 2700369	135109 6914040	258595	533692	1363905	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	57837 3277891	165597 8318844	319377	653385	1673386	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	28046 1524668	77468 3905280	147649	304220	766080	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	52964 2933697	146197 7465264	278362	580567	1478589	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	29384 1560415	79820 3914272	150564	308250	775609	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	22746 1203438	62523 3087805	117073	241995	607653	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	3489 237062	10497 618066	19724	43555	116673	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	26009 1479651	73222 3805919	141416	292535	750462	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	25403 1412566	71451 3607202	135919	280876	701375	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1295 78968	3750 206473	6274	14627	40444	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	20926	61945	114715	239094	612369	0.200	0.500	1.00	2.00	5.00

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Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

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ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1217566	3141786				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	17325 1052807	50765 2739507	94997	200037	522154	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	9531 526010	26841 1349576	49990	104110	262775	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	26713 1734949	77218 4518703	147337	315886	852539	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	14124 857542	39407 2228217	76007	161145	425824	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	464989 465740	463908 473798	463253	458737	458730	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	97289 96949	96790 96466	94021	93896	92628	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2020876 2005572	2006585 2059118	1995655	1994377	2002030	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	749498 746355	743073 758454	737027	735025	742687	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend
Ave = Average ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-288300/13	CG22X12.D
Level 2	IC 410-288300/14	CG22X13.D
Level 3	IC 410-288300/15	CG22X14.D
Level 4	IC 410-288300/16	CG22X15.D
Level 5	IC 410-288300/17	CG22X16.D
Level 6	ICIS 410-288300/18	CG22X17.D
Level 7	IC 410-288300/19	CG22X18.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-3.6 -1.8	-3.7	3.0	4.2	4.7	-2.8	50 30	30	30	30	30	30
Chloromethane	2.2 -6.3	8.2	2.8	0.8	-1.3	-6.4	50 30	30	30	30	30	30
Vinyl chloride	-0.2 -2.7	1.2	-2.4	3.6	4.5	-4.0	50 30	30	30	30	30	30
1,3-Butadiene	7.5 -4.7	-4.0	-0.3	3.1	3.2	-4.9	50 30	30	30	30	30	30
Bromomethane	1.0 -2.2	1.7	-0.9	1.7	1.9	-3.3	50 30	30	30	30	30	30
Chloroethane	2.5 -5.9	4.3	3.1	1.0	0.7	-5.6	50 30	30	30	30	30	30
Dichlorofluoromethane	-0.6 -4.5	8.9	-0.1	1.1	0.7	-5.4	50 30	30	30	30	30	30
Trichlorofluoromethane	-5.4 0.1	-2.4	0.5	5.0	4.9	-2.6	50 30	30	30	30	30	30
Ethyl ether	-2.9 -0.4	-1.1	-2.1	5.5	1.2	-0.3	50 30	30	30	30	30	30
Freon 123a	8.4 -3.7	3.5	-1.8	0.2	-0.7	-6.0	50 30	30	30	30	30	30
Acrolein	-7.4 -1.3	5.3	8.7	8.4	-10.5	-3.2	50 30	30	30	30	30	30
1,1-Dichloroethene	0.5 -2.8	8.2	-2.0	-0.2	0.3	-3.9	50 30	30	30	30	30	30
Acetone	16.0 -13.7	23.4	1.5	1.3	-16.4	-12.2	50 30	30	30	30	30	30
Freon 113	-7.5 -0.1	2.4	0.9	3.0	6.4	-5.0	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl iodide	-6.8 -0.5	5.6	-1.6	2.5	2.1	-1.2	50 30	30	30	30	30	30
Carbon disulfide	-9.9 2.3	3.8	-1.6	1.6	3.6	0.2	50 30	30	30	30	30	30
Methyl acetate	5.2 0.1	0.6	-5.0	19.4	-14.8	-5.5	50 30	30	30	30	30	30
Allyl chloride	-3.8 -0.9	5.4	-1.9	1.4	1.7	-1.9	50 30	30	30	30	30	30
Methylene Chloride	-2.5 -2.6	6.8	-1.0	1.2	0.3	-2.3	50 30	30	30	30	30	30
t-Butyl alcohol	-8.6 -7.4	23.5	17.8	1.9	-18.2	-8.9	50 30	30	30	30	30	30
Acrylonitrile	-7.4 -4.3	5.4	12.4	6.4	-7.0	-5.5	50 30	30	30	30	30	30
Methyl tertiary butyl ether	-5.7 -1.1	4.8	-2.1	3.1	1.8	-0.8	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-4.4 -2.4	7.4	-0.8	2.3	1.0	-3.1	50 30	30	30	30	30	30
n-Hexane	-3.5 -0.2	6.3	-2.4	-1.9	5.2	-3.5	50 30	30	30	30	30	30
1,1-Dichloroethane	-7.2 -1.3	5.1	-0.2	3.0	2.3	-1.7	50 30	30	30	30	30	30
di-Isopropyl ether	-5.3 -1.0	5.5	-1.2	2.1	1.6	-1.7	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-6.0 1.8	4.0	-1.1	0.4	1.4	-0.5	50 30	30	30	30	30	30
Ethyl t-butyl ether	-5.8 -0.5	2.9	-0.7	2.1	2.3	-0.3	50 30	30	30	30	30	30
2-Butanone	-5.9 -1.9	0.2	8.0	8.4	-5.1	-3.7	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-9.2 -1.4	7.7	0.3	1.2	2.8	-1.4	50 30	30	30	30	30	30
2,2-Dichloropropane	-4.2 -1.2	2.5	-2.0	5.4	1.9	-2.4	50 30	30	30	30	30	30
Propionitrile	-12.4 -4.5	4.6	5.5	4.1	2.4	0.3	50 30	30	30	30	30	30
Methacrylonitrile	-16.9 3.7	-1.6	9.2	9.4	-2.0	-1.9	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Bromochloromethane	-10.9 0.4	7.0	-0.2	2.3	2.5	-1.1	50 30	30	30	30	30	30
Tetrahydrofuran	0.6 -1.3	-1.5	9.8	4.0	-5.9	-5.6	50 30	30	30	30	30	30
Chloroform	-3.2 -1.4	4.1	0.6	1.3	0.8	-2.2	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-9.3 -0.2	4.3	1.8	2.6	2.7	-1.9	50 30	30	30	30	30	30
Cyclohexane	-9.4 3.0	3.5	-1.1	0.9	5.1	-1.9	50 30	30	30	30	30	30
Carbon tetrachloride	-10.7 4.5	0.8	-1.6	2.6	4.4	0.2	50 30	30	30	30	30	30
1,1-Dichloropropene	-3.5 0.7	5.7	-2.7	0.2	1.6	-2.0	50 30	30	30	30	30	30
Isobutyl alcohol	8.0 -7.1	6.3	4.4	-0.7	-6.8	-4.2	50 30	30	30	30	30	30
Benzene	-2.6 -1.3	4.4	-1.2	1.2	1.9	-2.4	50 30	30	30	30	30	30
1,2-Dichloroethane	4.2 -4.8	7.8	0.4	2.1	-5.2	-4.5	50 30	30	30	30	30	30
t-Amyl methyl ether	-8.2 -0.1	3.6	-0.1	2.9	1.8	0.2	50 30	30	30	30	30	30
n-Heptane	0.3 -1.7	3.2	-2.9	0.2	2.9	-1.9	50 30	30	30	30	30	30
n-Butanol	-25.3 4.5	-0.7	5.3	-1.1	8.3	9.0	50 30	30	30	30	30	30
Trichloroethene	-7.6 0.2	5.1	-2.9	3.8	2.5	-1.2	50 30	30	30	30	30	30
Methylcyclohexane	-9.0 2.7	1.8	-2.0	1.1	6.8	-1.4	50 30	30	30	30	30	30
1,2-Dichloropropane	-6.5 -1.6	5.5	-0.4	2.9	1.6	-1.5	50 30	30	30	30	30	30
Methyl methacrylate	-28.8 13.7	-3.5	8.9	7.7	-0.7	2.8	50 30	30	30	30	30	30
1,4-Dioxane	-32.6 0.0	19.7	-3.6	-0.6	0.6	-0.2	50 30	30	30	30	30	30
Dibromomethane	-2.7 -1.2	3.7	-2.6	3.0	1.7	-1.8	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Bromodichloromethane	-10.3 2.3	1.9	-0.8	3.4	2.8	0.8	50 30	30	30	30	30	30
2-Nitropropane	7.9 4.2	-3.3	-2.5	2.0	-5.8	-2.5	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-13.2 4.4	1.5	-4.0	1.5	5.5	4.4	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-14.8 4.7	-1.7	6.5	7.8	-1.2	-1.2	50 30	30	30	30	30	30
Toluene	-5.4 0.4	3.4	0.0	1.8	1.7	-1.9	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-16.6 8.0	-2.6	-2.1	2.7	5.4	5.2	50 30	30	30	30	30	30
Ethyl methacrylate	-14.6 6.5	0.7	-5.4	1.6	5.2	5.9	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-4.7 -1.8	3.3	-0.1	3.5	1.2	-1.4	50 30	30	30	30	30	30
Tetrachloroethene	-5.9 0.5	1.8	-1.1	2.7	3.0	-1.1	50 30	30	30	30	30	30
1,3-Dichloropropane	-6.8 -1.5	2.4	-0.4	3.3	3.3	-0.4	50 30	30	30	30	30	30
2-Hexanone	-22.3 9.7	-7.0	8.4	7.7	1.6	1.9	50 30	30	30	30	30	30
Dibromochloromethane	-13.1 5.8	0.6	-4.3	1.3	5.2	4.5	50 30	30	30	30	30	30
1,2-Dibromoethane	-11.3 2.0	3.0	-3.1	4.1	3.2	2.1	50 30	30	30	30	30	30
1-Chlorohexane	4.8 -0.9	2.9	-3.0	0.2	0.1	-3.9	50 30	30	30	30	30	30
Chlorobenzene	-4.3 -0.8	4.0	0.0	1.6	1.1	-1.6	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-7.5 3.0	0.8	-3.6	3.1	3.2	1.0	50 30	30	30	30	30	30
Ethylbenzene	-8.6 2.1	2.0	-1.0	2.7	2.2	0.6	50 30	30	30	30	30	30
m&p-Xylene	-8.9 1.9	0.6	0.6	2.4	2.9	0.4	50 30	30	30	30	30	30
o-Xylene	-9.1 2.0	2.5	-0.6	1.8	3.1	0.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Styrene	-9.7 4.4	-1.4	-3.2	3.3	3.8	2.8	50 30	30	30	30	30	30
Bromoform	-15.1 11.0	-2.1	-7.1	1.4	5.4	6.6	50 30	30	30	30	30	30
Isopropylbenzene	-9.5 1.2	2.0	0.2	2.0	3.5	0.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-8.0 -2.5	6.9	1.3	3.3	1.0	-2.0	50 30	30	30	30	30	30
Bromobenzene	-3.5 -2.6	5.1	-0.1	2.4	-0.1	-1.3	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-13.4 3.8	2.8	-1.7	3.4	2.8	2.3	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-0.3 -5.5	5.1	1.7	1.2	0.1	-2.4	50 30	30	30	30	30	30
N-Propylbenzene	-8.4 -3.2	4.5	1.7	3.4	2.9	-0.7	50 30	30	30	30	30	30
2-Chlorotoluene	-3.8 -2.9	3.8	1.3	1.6	1.2	-1.3	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-10.6 0.5	4.6	-0.3	2.7	2.5	0.7	50 30	30	30	30	30	30
4-Chlorotoluene	-9.1 -0.1	5.6	-0.1	1.3	3.5	-1.2	50 30	30	30	30	30	30
tert-Butylbenzene	-7.3 0.1	0.3	-0.7	0.7	7.9	-1.0	50 30	30	30	30	30	30
Pentachloroethane	-14.6 7.1	-1.9	-3.1	0.6	6.9	5.0	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-11.3 0.1	4.0	0.8	2.6	3.2	0.6	50 30	30	30	30	30	30
sec-Butylbenzene	-10.1 -1.6	4.2	1.7	2.6	3.4	-0.3	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-6.7 -1.1	4.3	0.7	2.2	1.4	-0.7	50 30	30	30	30	30	30
p-Isopropyltoluene	-7.5 -0.8	3.3	-0.4	2.4	2.7	0.3	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-4.3 -3.0	5.2	0.5	1.5	0.5	-0.5	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-5.0 -1.9	5.6	0.1	2.0	0.9	-1.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Benzyl chloride	-19.0 9.1	-1.4	-6.2	2.1	7.7	7.7	50 30	30	30	30	30	30
n-Butylbenzene	-9.8 0.4	2.7	0.5	2.4	3.5	0.4	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-8.1 -0.7	4.6	0.8	2.6	0.9	0.0	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-12.0 6.8	3.1	-12.6	0.4	9.3	5.0	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-11.6 1.0	5.8	-0.7	2.0	2.9	0.7	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-13.2 4.4	2.9	-2.5	1.2	4.0	3.2	50 30	30	30	30	30	30
Hexachlorobutadiene	-7.5 -0.4	5.3	-0.6	2.0	1.4	-0.1	50 30	30	30	30	30	30
Naphthalene	-15.9 8.3	-1.6	-4.9	0.5	6.8	6.9	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-12.2 5.4	-0.9	-3.2	1.2	5.3	4.3	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.2 0.7	0.0	0.2	-0.7	-0.2	0.2	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.6 -0.3	1.4	-1.1	-1.1	-2.0	1.5	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.5 1.3	-0.9	0.3	0.2	-0.2	-0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.3 0.8	-0.8	0.1	-0.2	0.0	0.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D
Lims ID: IC std1 0.2
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Aug-2022 20:12:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-013
Misc. Info.: IC STD.2 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:20 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:44:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.757	1.764	-0.007	97	10972	0.2000	0.1929	
5 Chloromethane	50	1.940	1.940	0.000	98	15369	0.2000	0.2044	
6 Vinyl chloride	62	2.044	2.038	0.006	92	13917	0.2000	0.1995	
7 Butadiene	39	2.044	2.050	-0.006	90	16039	0.2000	0.2151	M
9 Bromomethane	94	2.324	2.331	-0.007	89	9377	0.2000	0.2021	M
10 Chloroethane	64	2.392	2.398	-0.006	99	8309	0.2000	0.2049	
11 Dichlorofluoromethane	67	2.611	2.617	-0.006	97	18620	0.2000	0.1988	
12 Trichlorofluoromethane	101	2.672	2.672	0.000	65	14979	0.2000	0.1893	
13 Pentane	43	2.684	2.678	0.006	98	15693	0.2000	0.2237	M
15 Ethyl ether	59	2.861	2.861	0.000	56	7885	0.2001	0.1943	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.965	2.959	0.006	94	13359	0.2000	0.2167	
17 Acrolein	56	3.019	3.013	0.006	99	57965	10.0	9.26	
19 1,1-Dichloroethene	96	3.135	3.135	0.000	97	8812	0.2000	0.2009	
20 Acetone	43	3.166	3.166	0.000	89	16327	2.00	2.32	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.178	3.178	0.000	90	7638	0.2000	0.1849	
22 Iodomethane	142	3.306	3.300	0.006	99	15047	0.2000	0.1864	
23 Isopropyl alcohol	45	3.324	3.318	0.006	31	7348	4.00	4.73	M
24 Ethyl bromide	108	3.324	3.324	0.000	97	7653	0.2000	0.1854	
25 Carbon disulfide	76	3.391	3.391	0.000	100	24439	0.2000	0.1802	
27 Methyl acetate	43	3.532	3.532	0.000	28	4364	0.2000	0.2104	
28 3-Chloro-1-propene	41	3.550	3.544	0.006	94	15566	0.2000	0.1925	
29 Methylene Chloride	84	3.714	3.708	0.006	86	10145	0.2000	0.1951	
* 30 t-Butyl alcohol-d10 (IS)	65	3.745	3.739	0.006	90	136580	50.0	50.0	
31 2-Methyl-2-propanol	59	3.830	3.849	-0.019	24	10405	4.00	3.66	
32 Acrylonitrile	53	4.056	4.019	0.037	22	4904	0.5000	0.4630	
33 Methyl tert-butyl ether	73	4.080	4.068	0.012	86	25132	0.2000	0.1887	
34 trans-1,2-Dichloroethene	96	4.068	4.074	-0.006	97	10331	0.2000	0.1912	
35 Hexane	57	4.483	4.470	0.013	91	13985	0.2000	0.1930	
36 1,1-Dichloroethane	63	4.726	4.720	0.006	95	18464	0.2000	0.1857	
38 Isopropyl ether	45	4.781	4.787	-0.006	93	34613	0.2000	0.1893	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.836	4.830	0.006	90	14606	0.2000	0.1880	M
40 Tert-butyl ethyl ether	59	5.336	5.330	0.006	97	31825	0.2000	0.1885	
41 2-Butanone (MEK)	43	5.580	5.543	0.037	85	27023	2.00	1.88	
42 cis-1,2-Dichloroethene	96	5.574	5.574	0.000	83	10751	0.2000	0.1816	
43 2,2-Dichloropropane	77	5.592	5.586	0.006	61	15053	0.2000	0.1916	M
45 Propionitrile	54	5.690	5.635	0.055	90	12511	4.00	3.50	M
46 Methacrylonitrile	67	5.866	5.860	0.006	91	25222	2.00	1.66	
47 Chlorobromomethane	128	5.909	5.909	0.000	98	4671	0.2000	0.1781	
48 Tetrahydrofuran	71	5.927	5.927	0.000	47	4091	1.00	1.01	M
50 Chloroform	83	6.080	6.074	0.006	93	18150	0.2000	0.1937	
S 51 1,2-Dichloroethene, Total	100				0			0.3729	
52 1,1,1-Trichloroethane	97	6.293	6.293	0.000	37	14862	0.2000	0.1814	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	464989	10.0	9.98	
54 Cyclohexane	56	6.379	6.385	-0.006	92	16693	0.2000	0.1811	
55 Carbon tetrachloride	117	6.507	6.501	0.006	79	12280	0.2000	0.1785	
56 1,1-Dichloropropene	75	6.513	6.513	0.000	94	14777	0.2000	0.1930	M
57 Isobutyl alcohol	41	6.726	6.708	0.018	78	10915	10.0	10.8	a
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.750	6.757	-0.007	78	97289	10.0	10.2	
59 Benzene	78	6.775	6.775	0.000	93	44669	0.2000	0.1947	
61 1,2-Dichloroethane	62	6.854	6.860	-0.006	95	12113	0.2000	0.2084	
63 Tert-amyl methyl ether	73	6.976	6.982	-0.006	99	27951	0.2000	0.1835	M
* 64 Fluorobenzene (IS)	96	7.195	7.196	-0.001	99	1993587	10.0	10.0	
65 n-Heptane	43	7.214	7.208	0.006	51	16517	0.2000	0.2005	
66 n-Butanol	56	7.665	7.622	0.043	87	10591	17.5	13.1	
67 Trichloroethene	95	7.683	7.683	0.000	98	10874	0.2000	0.1849	
68 Methylcyclohexane	83	7.982	7.982	0.000	88	17806	0.2000	0.1820	
69 1,2-Dichloropropane	63	8.025	8.025	0.000	96	11398	0.2000	0.1870	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	93	16589	0.2000	0.1867	
71 Methyl methacrylate	69	8.140	8.128	0.012	85	3938	0.2000	0.1424	
72 1,4-Dioxane	88	8.134	8.134	0.000	31	585	10.0	6.74	
73 Dibromomethane	93	8.146	8.134	0.012	97	5293	0.2000	0.1946	
75 Dichlorobromomethane	83	8.384	8.384	0.000	98	12007	0.2000	0.1793	
76 2-Nitropropane	41	8.671	8.665	0.006	93	8495	1.00	1.08	M
78 1-Bromo-2-chloroethane	63	8.781	8.774	0.006	96	11426	0.2000	0.1879	
79 cis-1,3-Dichloropropene	75	8.963	8.951	0.012	96	15229	0.2000	0.1735	
81 4-Methyl-2-pentanone (MIBK)	43	9.158	9.159	-0.001	97	66201	2.00	1.70	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2020876	10.0	9.95	
83 Toluene	92	9.372	9.366	0.006	98	28361	0.2000	0.1891	
84 trans-1,3-Dichloropropene	75	9.677	9.658	0.019	91	12033	0.2000	0.1668	
85 Ethyl methacrylate	69	9.750	9.738	0.012	91	9967	0.2000	0.1709	
86 1,1,2-Trichloroethane	97	9.878	9.872	0.006	91	7912	0.2000	0.1905	
87 Tetrachloroethene	166	9.957	9.951	0.006	96	13152	0.2000	0.1883	
102 1,3-Dichloropropane	76	10.049	10.043	0.007	90	13365	0.2000	0.1864	
S 103 1,3-Dichloropropene, Total	100				0			0.3403	
104 2-Hexanone	43	10.128	10.116	0.012	96	42725	2.00	1.55	
106 Chlorodibromomethane	129	10.268	10.268	0.000	89	8621	0.2000	0.1738	
107 Ethylene Dibromide	107	10.378	10.378	0.000	98	6933	0.2000	0.1774	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1542113	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	89	17906	0.2000	0.2095	
110 Chlorobenzene	112	10.859	10.859	0.000	96	33861	0.2000	0.1915	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	94	10842	0.2000	0.1850	
112 Ethylbenzene	91	10.957	10.957	0.000	98	53287	0.2000	0.1827	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	42590	0.4000	0.3644	
S 114 Xylenes, Total	106				0			0.5463	
115 o-Xylene	106	11.420	11.414	0.006	95	21117	0.2000	0.1819	
116 Styrene	104	11.439	11.432	0.007	94	34317	0.2000	0.1806	
117 Bromoform	173	11.591	11.591	0.000	95	4911	0.2000	0.1697	
118 Isopropylbenzene	105	11.725	11.725	0.000	96	53375	0.2000	0.1809	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	749498	10.0	9.97	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	71	9593	0.2000	0.1840	
122 Bromobenzene	156	11.993	11.987	0.006	85	14153	0.2000	0.1931	
124 trans-1,4-Dichloro-2-butene	53	12.018	12.012	0.006	91	21808	2.00	1.73	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	77	2720	0.2000	0.1995	
126 N-Propylbenzene	91	12.066	12.067	0.000	98	64351	0.2000	0.1831	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	14171	0.2000	0.1925	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	95	45244	0.2000	0.1788	
129 4-Chlorotoluene	126	12.237	12.237	0.000	96	13732	0.2000	0.1818	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	10341	0.2000	0.1853	
131 Pentachloroethane	167	12.481	12.481	0.000	83	7199	0.2000	0.1708	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	96	46630	0.2000	0.1775	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	57837	0.2000	0.1798	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	99	28046	0.2000	0.1866	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	52964	0.2000	0.1850	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	881628	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	93	29384	0.2000	0.1915	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	97	22746	0.2000	0.1899	
139 Benzyl chloride	126	12.877	12.877	0.000	98	3489	0.2000	0.1620	
140 n-Butylbenzene	92	13.030	13.030	0.000	98	26009	0.2000	0.1803	
141 1,2-Dichlorobenzene	146	13.060	13.054	0.006	98	25403	0.2000	0.1838	
142 p-Diethylbenzene	119	13.085	13.085	0.000	87	27713	0.2000	0.1898	
145 1,2-Dibromo-3-Chloropropane	155	13.615	13.609	0.006	78	1295	0.2000	0.1760	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	97	20926	0.2000	0.1768	
147 1,2,4-Trichlorobenzene	180	14.170	14.164	0.006	94	17325	0.2000	0.1736	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	95	9531	0.2000	0.1849	
149 Naphthalene	128	14.353	14.347	0.006	96	26713	0.2000	0.1682	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	95	14124	0.2000	0.1756	
151 2-Methylnaphthalene	142	15.096	15.090	0.006	94	10457	0.2000	0.1395	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

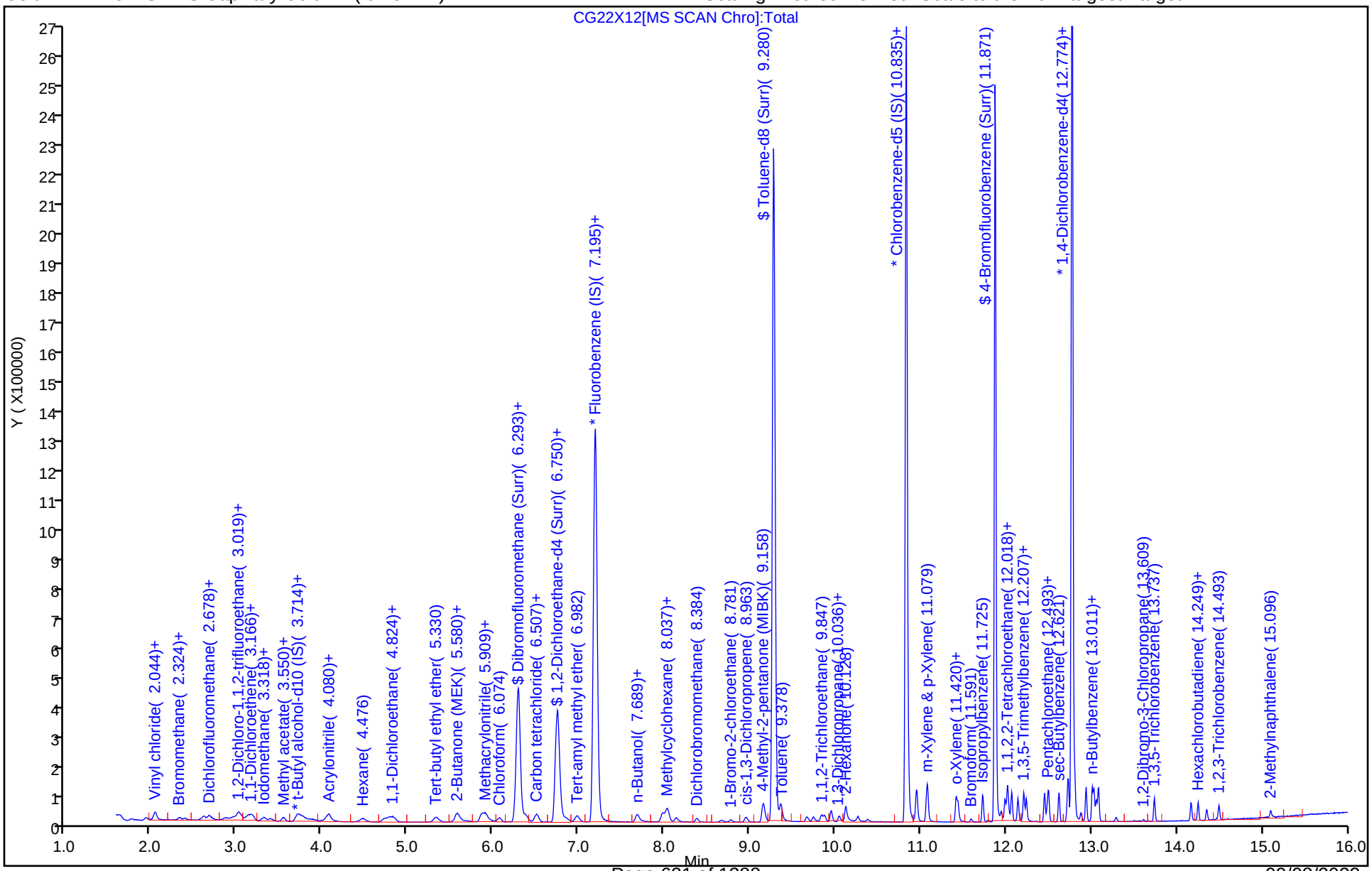
Report Date: 31-Aug-2022 08:31:21 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D

Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std1 0.2			Worklist Smp#:	13
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

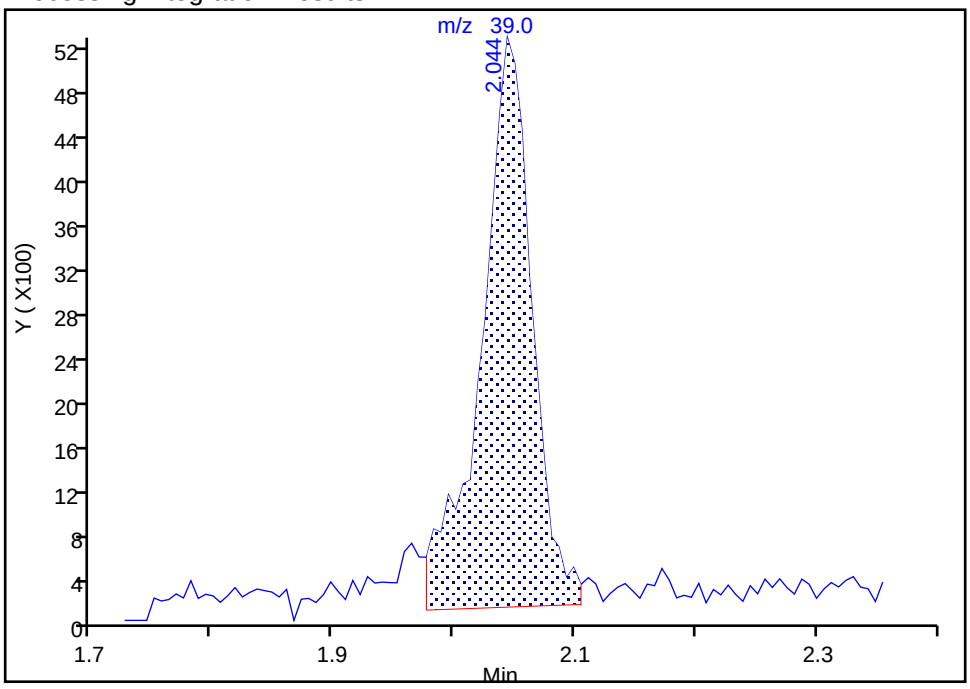
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

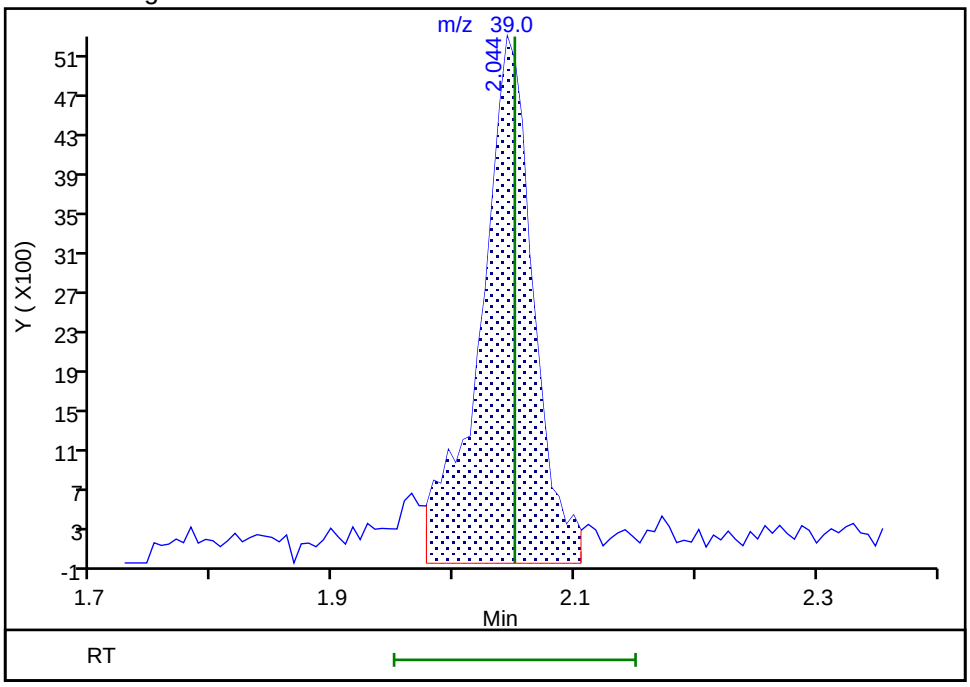
Processing Integration Results

RT: 2.04
Area: 15070
Amount: 0.203958
Amount Units: ug/l



Manual Integration Results

RT: 2.04
Area: 16039
Amount: 0.215058
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:23:09
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

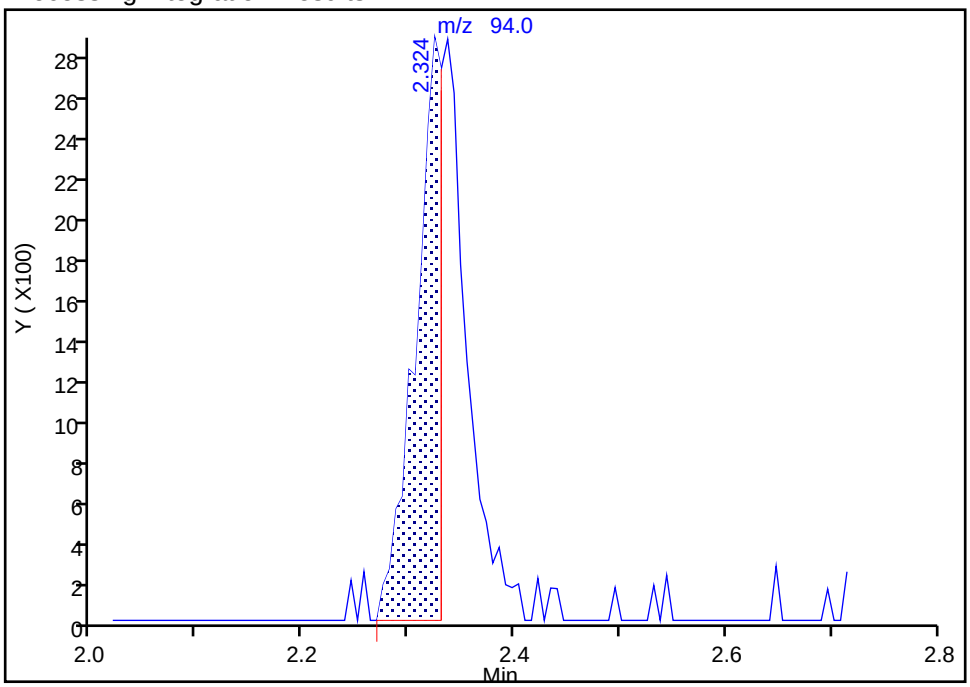
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

9 Bromomethane, CAS: 74-83-9

Signal: 1

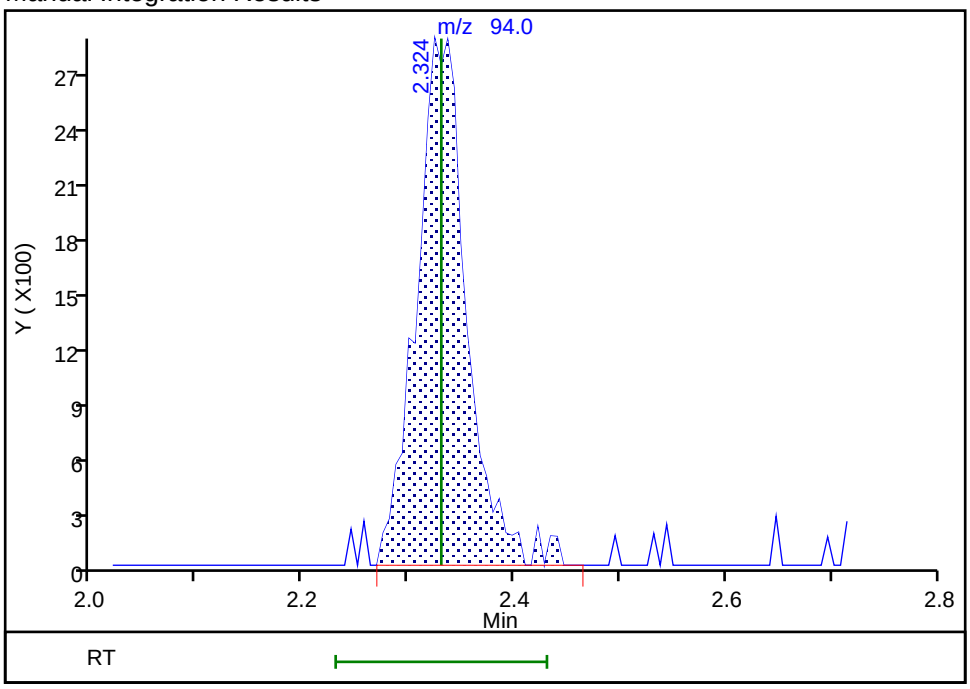
Processing Integration Results

RT: 2.32
Area: 4986
Amount: 0.115231
Amount Units: ug/l



Manual Integration Results

RT: 2.32
Area: 9377
Amount: 0.202064
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:23:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

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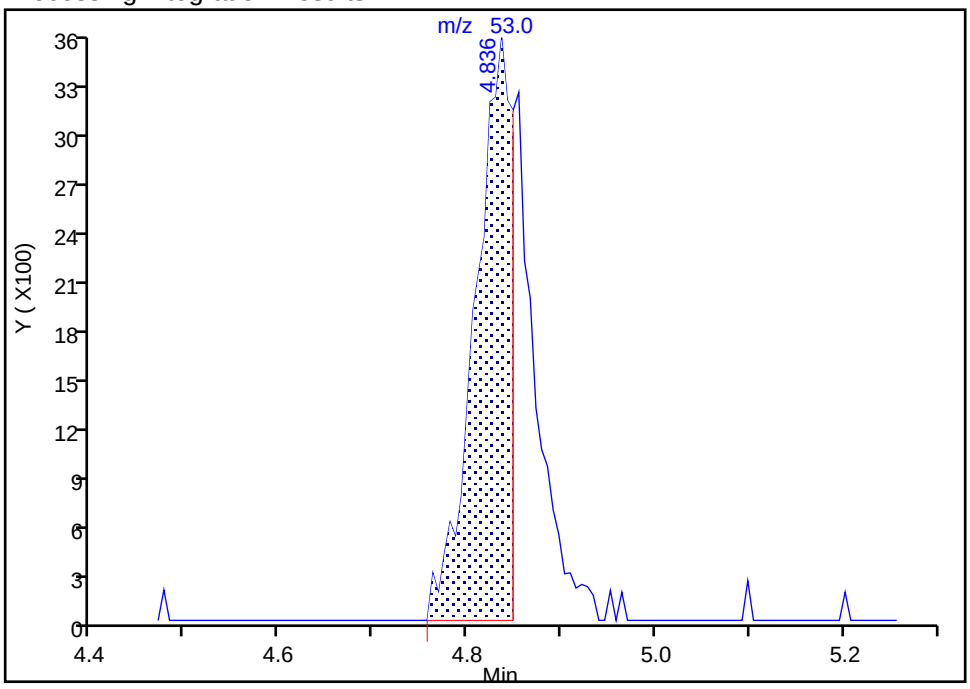
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

39 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

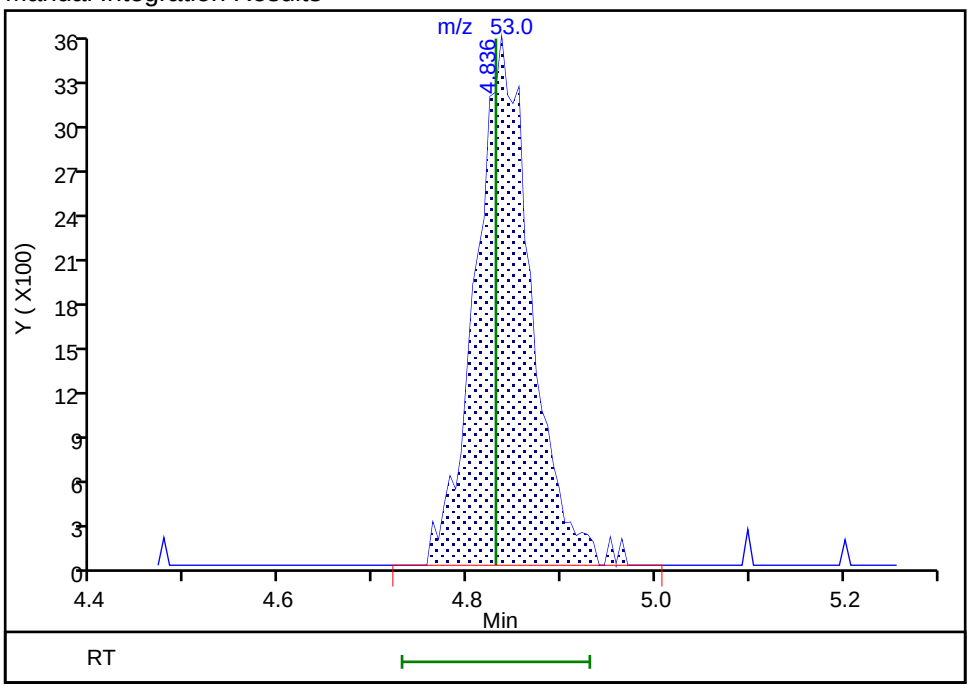
Processing Integration Results

RT: 4.84
Area: 9670
Amount: 0.130774
Amount Units: ug/l



Manual Integration Results

RT: 4.84
Area: 14606
Amount: 0.188011
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

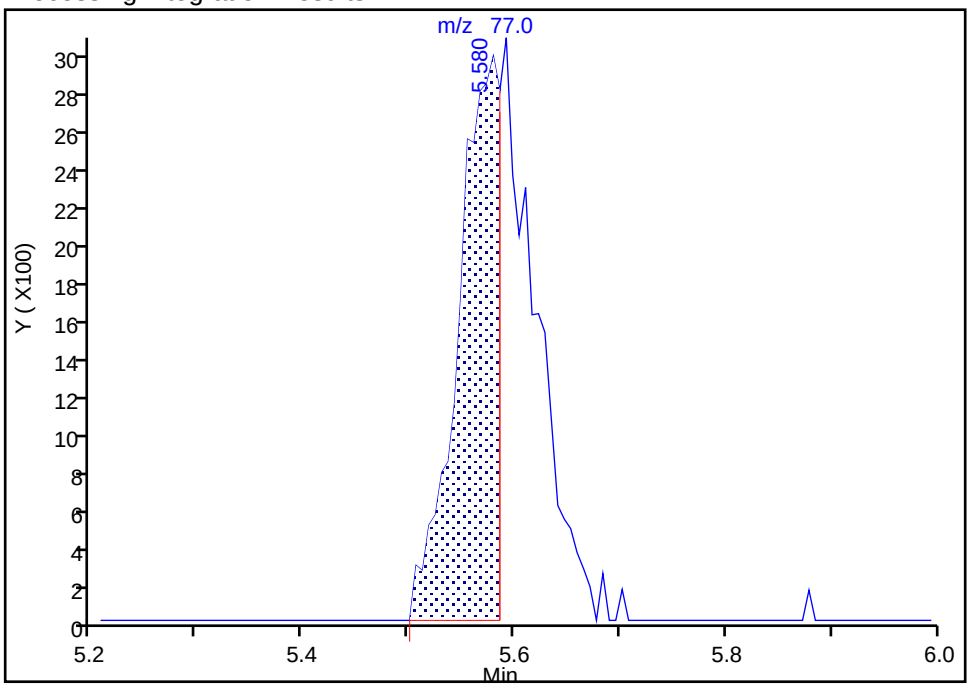
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

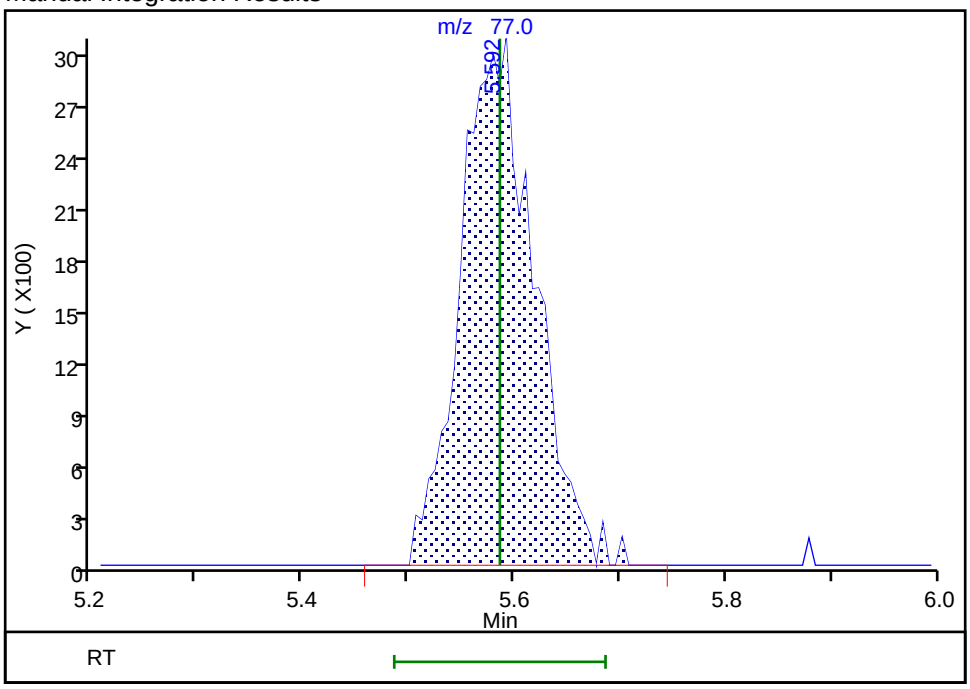
Processing Integration Results

RT: 5.58
Area: 8296
Amount: 0.112531
Amount Units: ug/l



Manual Integration Results

RT: 5.59
Area: 15053
Amount: 0.191639
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

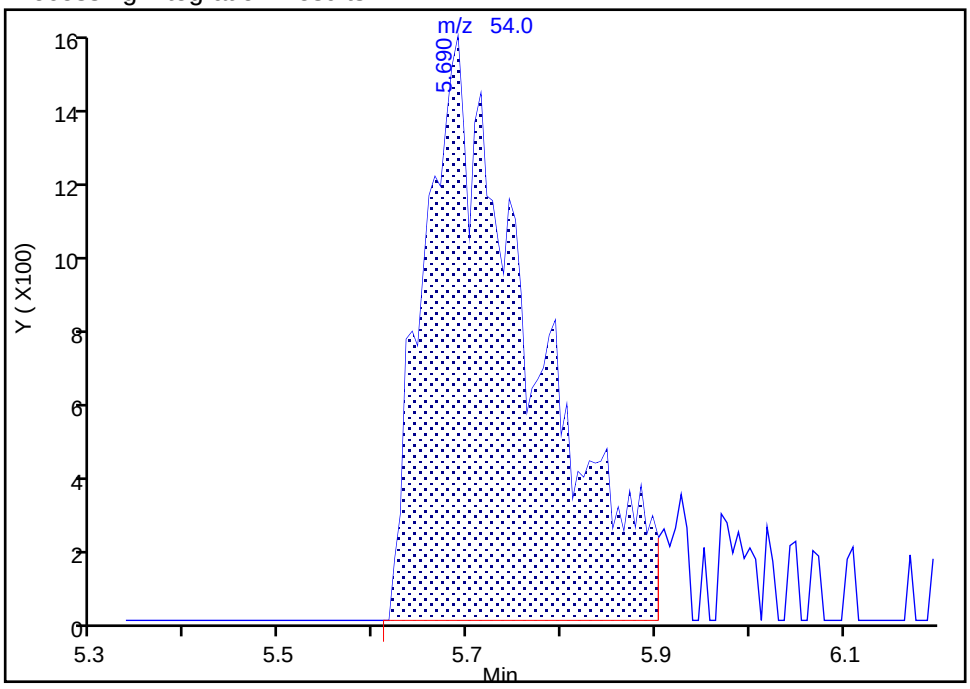
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Propionitrile, CAS: 107-12-0

Signal: 1

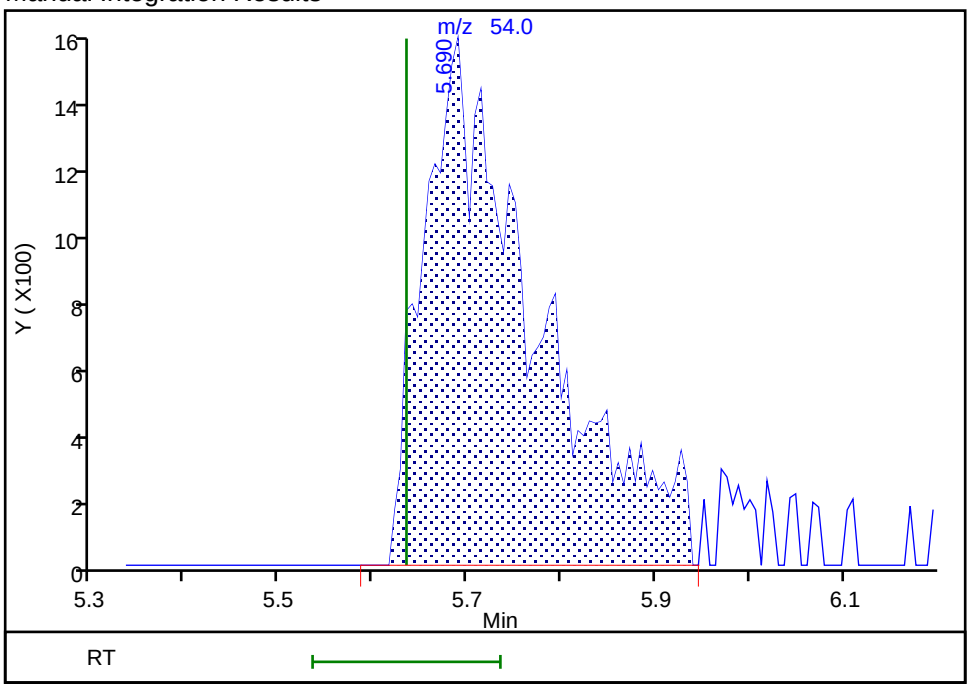
Processing Integration Results

RT: 5.69
Area: 12062
Amount: 3.395544
Amount Units: ug/l



Manual Integration Results

RT: 5.69
Area: 12511
Amount: 3.502050
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

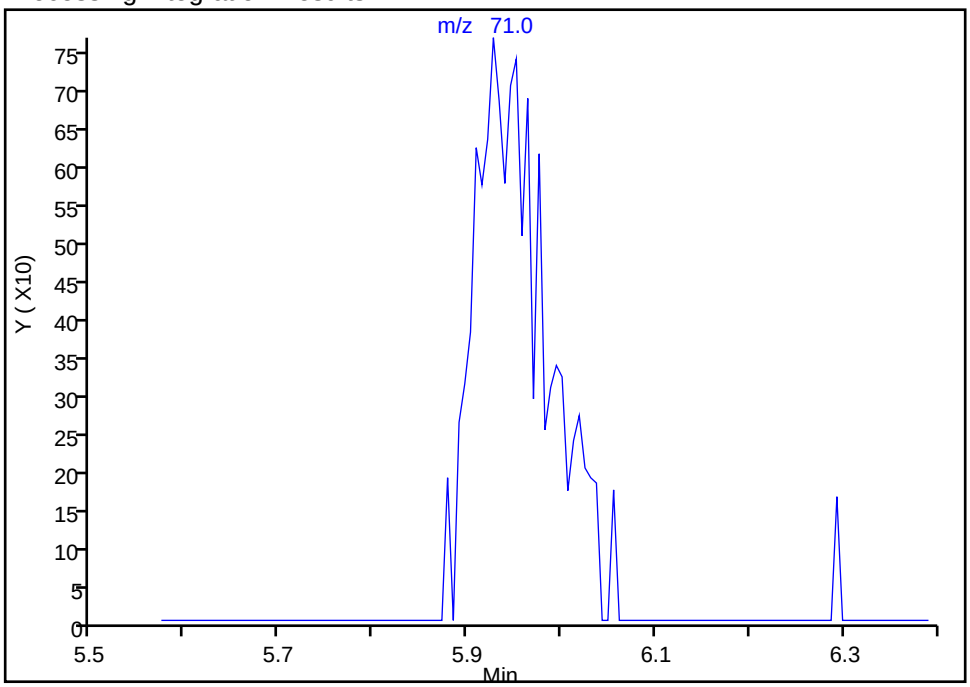
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

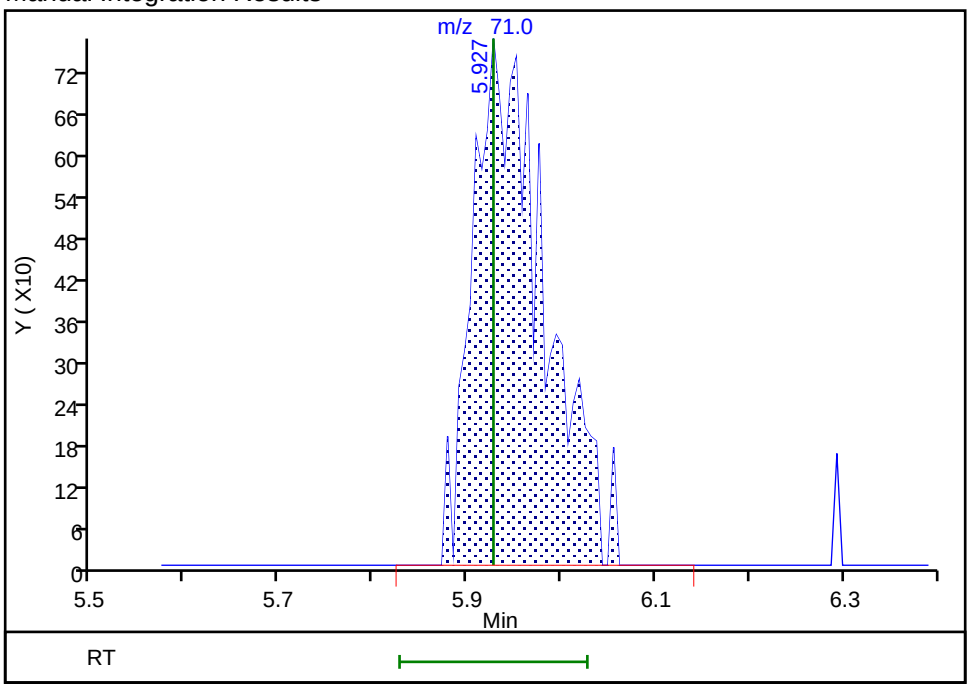
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.93
Area: 4091
Amount: 1.005632
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

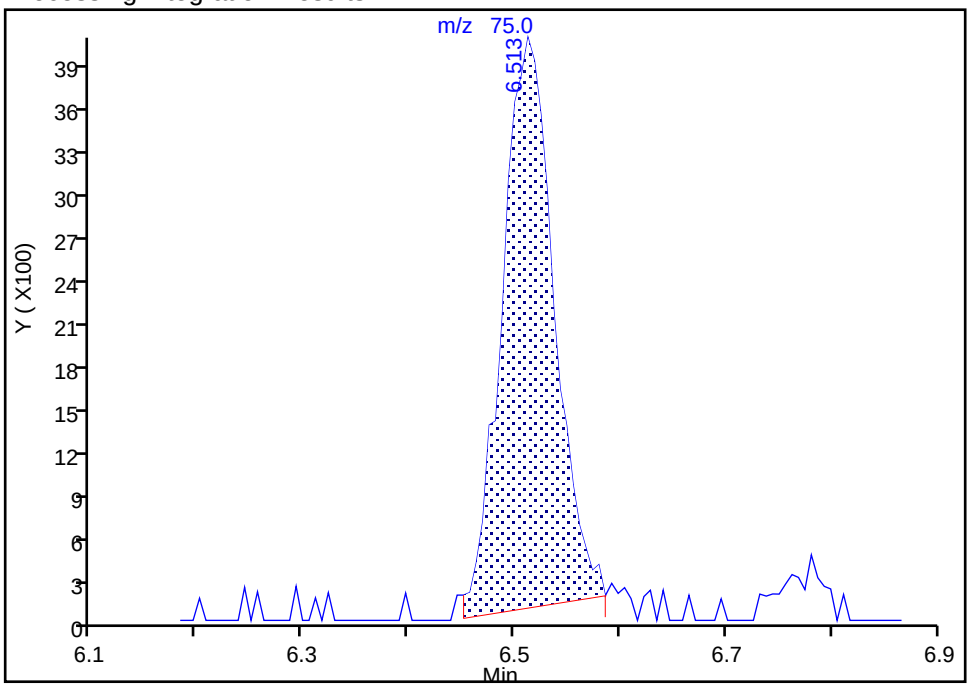
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

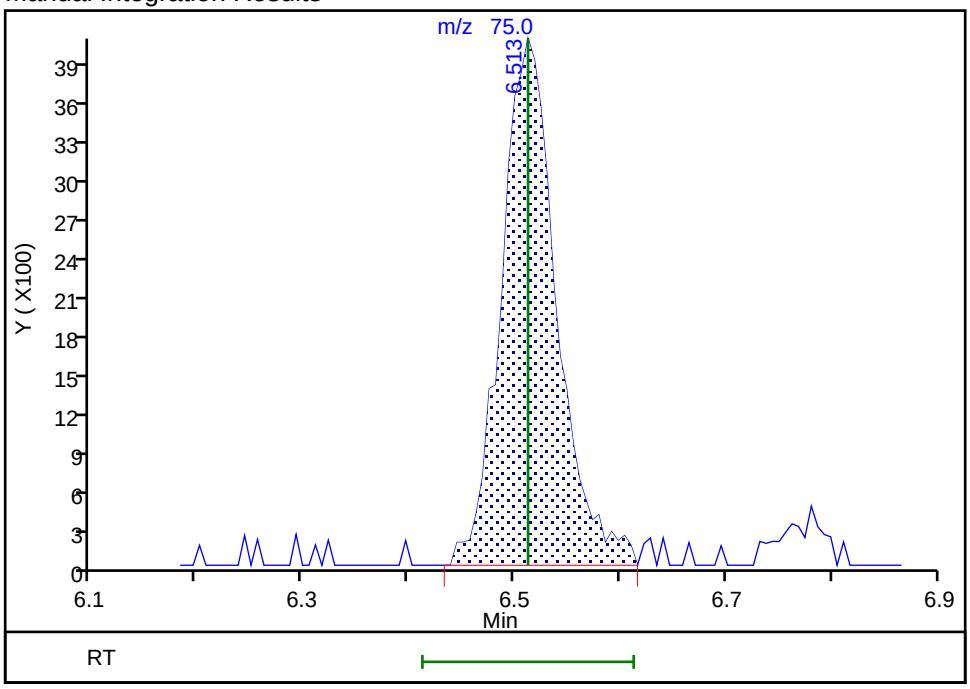
Processing Integration Results

RT: 6.51
Area: 13632
Amount: 0.179962
Amount Units: ug/l



Manual Integration Results

RT: 6.51
Area: 14777
Amount: 0.192994
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

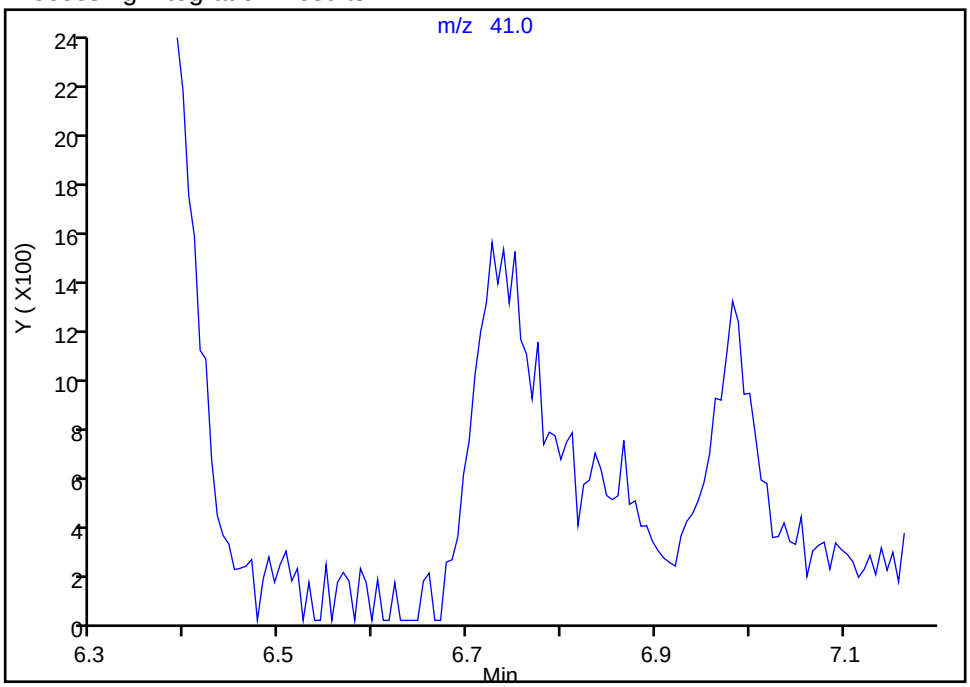
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

57 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

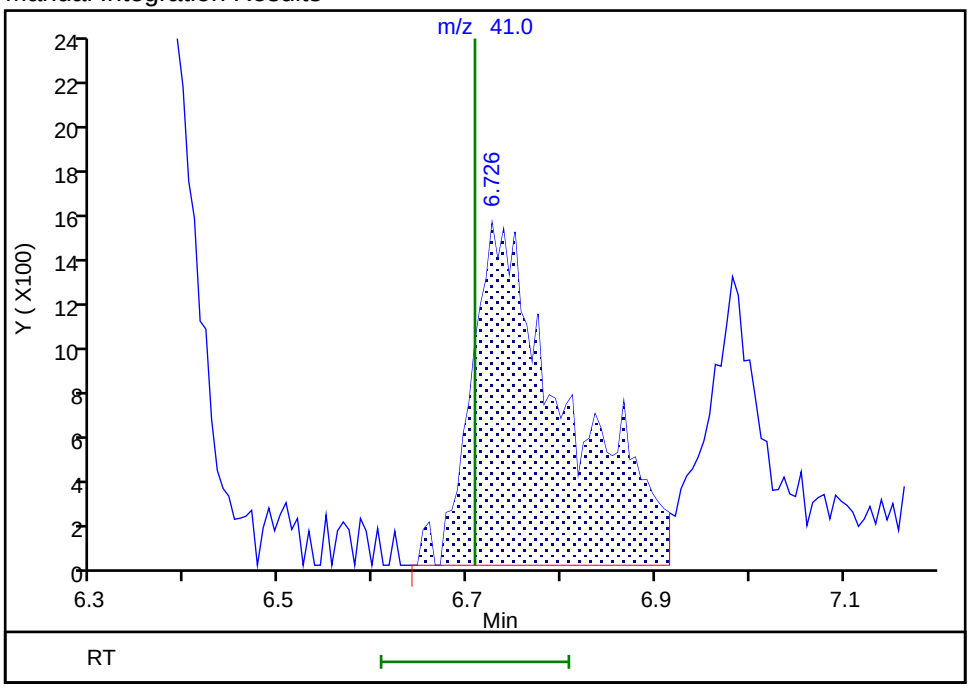
Not Detected
Expected RT: 6.71

Processing Integration Results



Manual Integration Results

RT: 6.73
Area: 10915
Amount: 10.802434
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

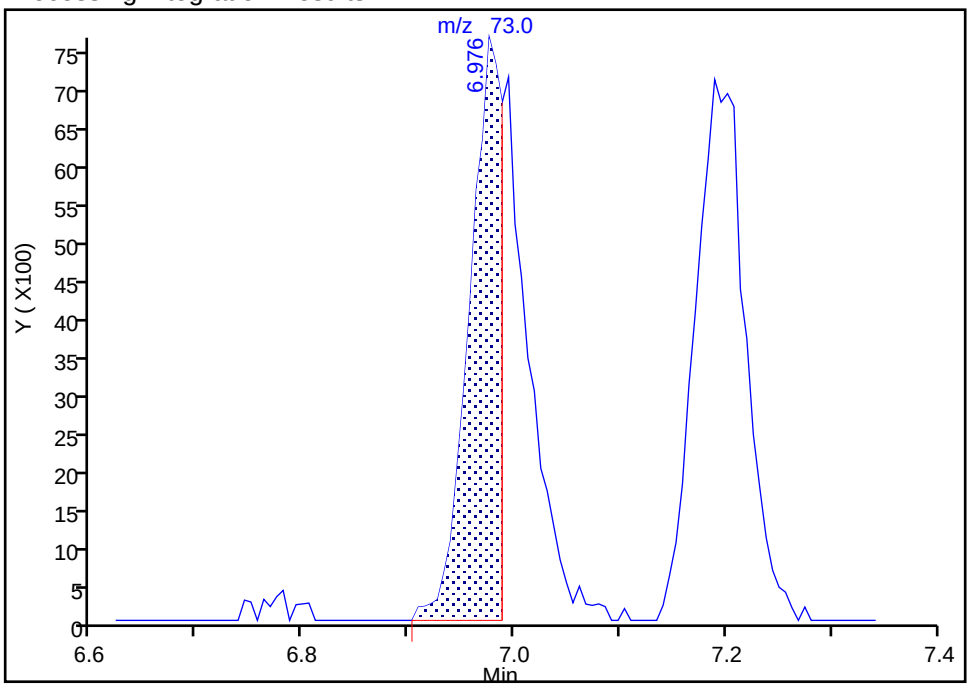
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

63 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

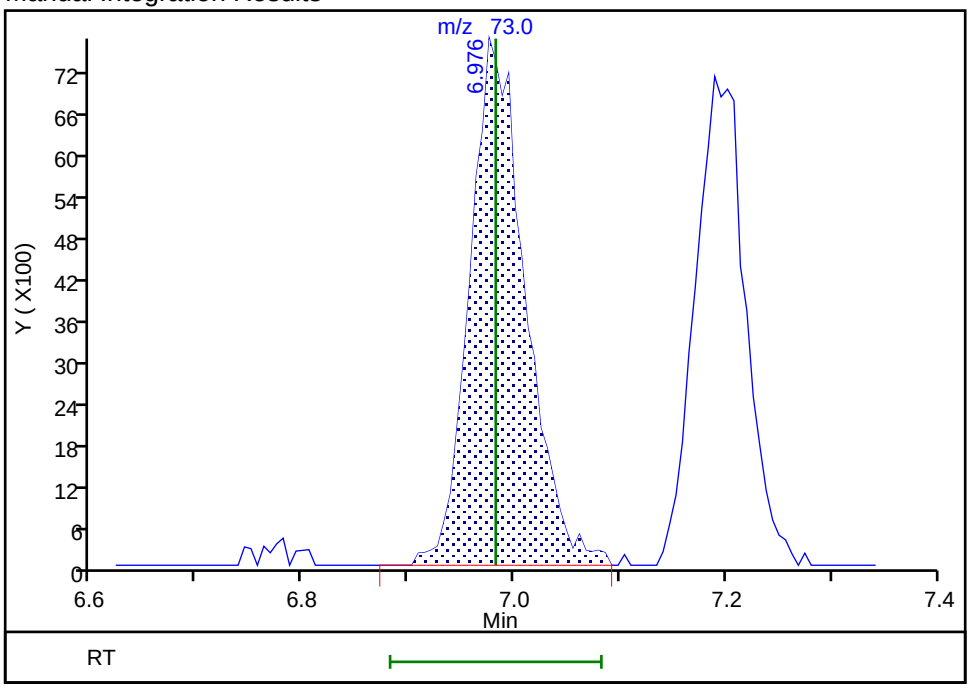
Processing Integration Results

RT: 6.98
Area: 16602
Amount: 0.115126
Amount Units: ug/l



Manual Integration Results

RT: 6.98
Area: 27951
Amount: 0.183510
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

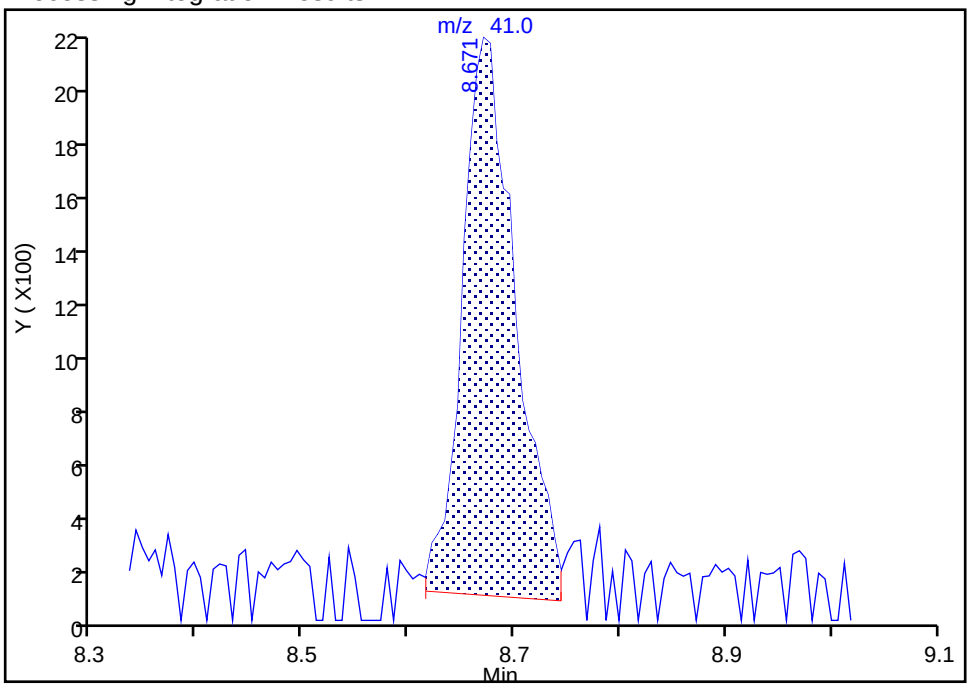
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

76 2-Nitropropane, CAS: 79-46-9

Signal: 1

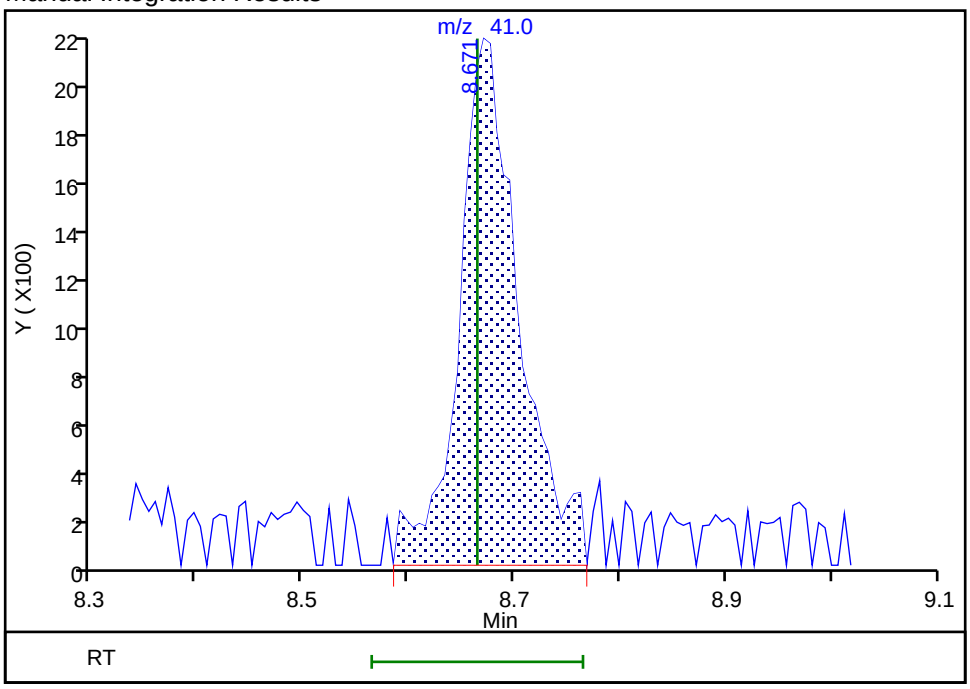
Processing Integration Results

RT: 8.67
Area: 7199
Amount: 0.937410
Amount Units: ug/l



Manual Integration Results

RT: 8.67
Area: 8495
Amount: 1.078970
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:25:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D
Lims ID: IC std2 0.5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Aug-2022 20:34:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-014
Misc. Info.: IC STD.5 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:27 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 09:27:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.751	1.764	-0.013	99	27289	0.5000	0.4816	
5 Chloromethane	50	1.922	1.940	-0.018	99	40512	0.5000	0.5409	
6 Vinyl chloride	62	2.026	2.038	-0.012	97	35160	0.5000	0.5060	
7 Butadiene	39	2.038	2.050	-0.012	92	35671	0.5000	0.4802	
9 Bromomethane	94	2.324	2.331	-0.007	89	23511	0.5000	0.5086	
10 Chloroethane	64	2.391	2.398	-0.007	99	21071	0.5000	0.5217	
11 Dichlorofluoromethane	67	2.605	2.617	-0.012	97	50779	0.5000	0.5443	
12 Trichlorofluoromethane	101	2.666	2.672	-0.006	93	38458	0.5000	0.4879	
13 Pentane	43	2.672	2.678	-0.006	95	33146	0.5000	0.4743	
15 Ethyl ether	59	2.855	2.861	-0.006	93	20000	0.5001	0.4948	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.952	2.959	-0.007	92	31764	0.5000	0.5174	
17 Acrolein	56	3.013	3.013	0.000	99	159412	25.0	26.3	
19 1,1-Dichloroethene	96	3.123	3.135	-0.012	97	23632	0.5000	0.5410	
20 Acetone	43	3.160	3.166	-0.006	92	41957	5.00	6.17	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.172	3.178	-0.006	90	21059	0.5000	0.5119	
22 Iodomethane	142	3.300	3.300	0.000	99	42438	0.5000	0.5278	
23 Isopropyl alcohol	45	3.294	3.318	-0.024	30	18168	10.0	12.1	M
24 Ethyl bromide	108	3.312	3.324	-0.012	97	20645	0.4999	0.5022	M
25 Carbon disulfide	76	3.385	3.391	-0.006	99	70097	0.5000	0.5188	
27 Methyl acetate	43	3.538	3.532	0.006	26	10083	0.5000	0.5029	
28 3-Chloro-1-propene	41	3.531	3.544	-0.013	93	42455	0.5000	0.5271	
29 Methylene Chloride	84	3.702	3.708	-0.006	93	27666	0.5000	0.5341	
* 30 t-Butyl alcohol-d10 (IS)	65	3.739	3.739	0.000	47	132044	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.848	3.849	-0.001	97	33987	10.0	12.3	
32 Acrylonitrile	53	4.019	4.019	0.000	36	13496	1.25	1.32	
33 Methyl tert-butyl ether	73	4.062	4.068	-0.006	88	69506	0.5000	0.5239	
34 trans-1,2-Dichloroethene	96	4.062	4.074	-0.012	98	28906	0.5000	0.5372	
35 Hexane	57	4.464	4.470	-0.006	91	38374	0.5000	0.5316	
36 1,1-Dichloroethane	63	4.714	4.720	-0.006	96	52080	0.5000	0.5257	
38 Isopropyl ether	45	4.781	4.787	-0.006	96	96103	0.5000	0.5277	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.830	4.830	0.000	90	40233	0.5000	0.5199	Ma
40 Tert-butyl ethyl ether	59	5.318	5.330	-0.012	98	86577	0.5000	0.5147	
41 2-Butanone (MEK)	43	5.555	5.543	0.012	99	69526	5.00	5.01	
42 cis-1,2-Dichloroethene	96	5.568	5.574	-0.006	82	31743	0.5000	0.5384	
43 2,2-Dichloropropane	77	5.568	5.586	-0.018	60	40087	0.5000	0.5124	
45 Propionitrile	54	5.671	5.635	0.036	98	36131	10.0	10.5	
46 Methacrylonitrile	67	5.854	5.860	-0.006	92	72136	5.00	4.92	
47 Chlorobromomethane	128	5.897	5.909	-0.012	95	13968	0.5000	0.5348	
48 Tetrahydrofuran	71	5.909	5.927	-0.018	57	9681	2.50	2.46	
50 Chloroform	83	6.074	6.074	0.000	93	48580	0.5000	0.5204	
S 51 1,2-Dichloroethene, Total	100				0			1.08	
52 1,1,1-Trichloroethane	97	6.281	6.293	-0.012	41	42559	0.5000	0.5216	
$ 53 Dibromofluoromethane (Surr)	113	6.287	6.293	-0.006	94	463908	10.0	10.0	
54 Cyclohexane	56	6.385	6.385	0.000	91	47497	0.5000	0.5174	
55 Carbon tetrachloride	117	6.494	6.501	-0.007	78	34521	0.5000	0.5039	
56 1,1-Dichloropropene	75	6.506	6.513	-0.007	97	40312	0.5000	0.5286	
57 Isobutyl alcohol	41	6.720	6.708	0.012	93	25955	25.0	26.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.744	6.757	-0.013	79	96790	10.0	10.1	
59 Benzene	78	6.769	6.775	-0.006	94	119293	0.5000	0.5220	
61 1,2-Dichloroethane	62	6.848	6.860	-0.012	97	31210	0.5000	0.5391	
63 Tert-amyl methyl ether	73	6.976	6.982	-0.006	99	78561	0.5000	0.5178	
* 64 Fluorobenzene (IS)	96	7.189	7.196	-0.007	99	1985770	10.0	10.0	
65 n-Heptane	43	7.201	7.208	-0.007	92	42342	0.5000	0.5160	
66 n-Butanol	56	7.640	7.622	0.018	90	34033	43.8	43.4	
67 Trichloroethene	95	7.683	7.683	0.000	98	30791	0.5000	0.5256	
68 Methylcyclohexane	83	7.982	7.982	0.000	89	49585	0.5000	0.5089	
69 1,2-Dichloropropane	63	8.018	8.025	-0.007	96	32023	0.5000	0.5274	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	95	44896	0.5000	0.5072	
71 Methyl methacrylate	69	8.134	8.128	0.006	89	12895	0.5000	0.4823	
72 1,4-Dioxane	88	8.134	8.134	0.000	31	5353	25.0	29.9	M
73 Dibromomethane	93	8.140	8.134	0.006	93	14045	0.5000	0.5185	
75 Dichlorobromomethane	83	8.384	8.384	0.000	99	33992	0.5000	0.5097	
76 2-Nitropropane	41	8.665	8.665	0.000	98	18408	2.50	2.42	
78 1-Bromo-2-chloroethane	63	8.780	8.774	0.006	99	30105	0.5000	0.4971	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	44371	0.5000	0.5076	
81 4-Methyl-2-pentanone (MIBK)	43	9.152	9.159	-0.007	97	184444	5.00	4.91	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2006585	10.0	9.91	
83 Toluene	92	9.366	9.366	0.000	97	77261	0.5000	0.5172	
84 trans-1,3-Dichloropropene	75	9.664	9.658	0.006	92	34999	0.5000	0.4869	
85 Ethyl methacrylate	69	9.744	9.738	0.006	90	29264	0.5000	0.5036	
86 1,1,2-Trichloroethane	97	9.878	9.872	0.006	90	21374	0.5000	0.5166	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	35433	0.5000	0.5091	
102 1,3-Dichloropropane	76	10.048	10.043	0.006	91	36600	0.5000	0.5122	
S 103 1,3-Dichloropropene, Total	100				0			0.99	
104 2-Hexanone	43	10.122	10.116	0.006	97	123588	5.00	4.65	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	24859	0.5000	0.5030	
107 Ethylene Dibromide	107	10.378	10.378	0.000	98	20044	0.5000	0.5149	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1536465	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	96	43798	0.5000	0.5143	
110 Chlorobenzene	112	10.859	10.859	0.000	97	91634	0.5000	0.5201	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	95	29412	0.5000	0.5038	
112 Ethylbenzene	91	10.957	10.957	0.000	98	148239	0.5000	0.5102	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	117197	1.00	1.01	
S 114 Xylenes, Total	106				0			1.52	
115 o-Xylene	106	11.414	11.414	0.000	98	59292	0.5000	0.5126	
116 Styrene	104	11.438	11.432	0.006	95	93291	0.5000	0.4928	
117 Bromoform	173	11.591	11.591	0.000	97	14114	0.5000	0.4895	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	149953	0.5000	0.5101	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	743073	10.0	9.92	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	78	27538	0.5000	0.5343	
122 Bromobenzene	156	11.987	11.987	0.000	90	38100	0.5000	0.5257	
124 trans-1,4-Dichloro-2-butene	53	12.018	12.012	0.006	91	63969	5.00	5.14	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	79	7083	0.5000	0.5254	
126 N-Propylbenzene	91	12.066	12.067	0.000	99	181457	0.5000	0.5223	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	37785	0.5000	0.5191	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	95	130841	0.5000	0.5230	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	39446	0.5000	0.5282	
130 tert-Butylbenzene	134	12.450	12.451	-0.001	93	27675	0.5000	0.5017	
131 Pentachloroethane	167	12.487	12.481	0.006	83	20442	0.5000	0.4905	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	97	135109	0.5000	0.5200	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	165597	0.5000	0.5208	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	97	77468	0.5000	0.5214	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	146197	0.5000	0.5165	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	871682	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	95	79820	0.5000	0.5261	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	62523	0.5000	0.5280	
139 Benzyl chloride	126	12.877	12.877	0.000	98	10497	0.5000	0.4928	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	73222	0.5000	0.5135	
141 1,2-Dichlorobenzene	146	13.060	13.054	0.006	99	71451	0.5000	0.5228	
142 p-Diethylbenzene	119	13.084	13.085	-0.001	86	75145	0.5000	0.5207	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	86	3750	0.5000	0.5155	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	97	61945	0.5000	0.5292	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	50765	0.5000	0.5144	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	95	26841	0.5000	0.5267	
149 Naphthalene	128	14.346	14.347	-0.001	97	77218	0.5000	0.4919	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	95	39407	0.5000	0.4956	
151 2-Methylnaphthalene	142	15.096	15.090	0.006	92	32162	0.5000	0.4340	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

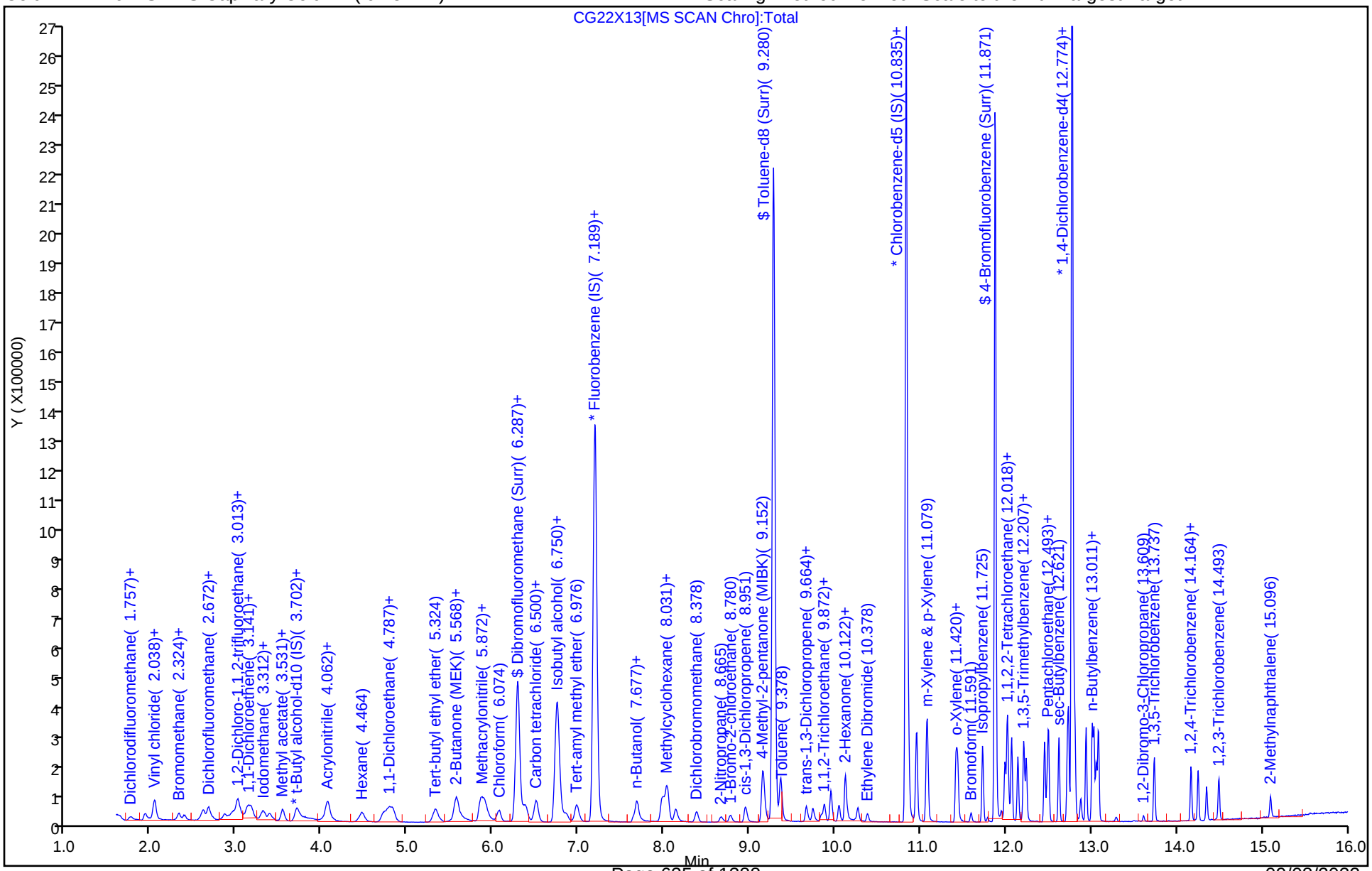
Report Date: 31-Aug-2022 08:31:27 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D

Injection Date:	22-Aug-2022 20:34:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std2 0.5			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

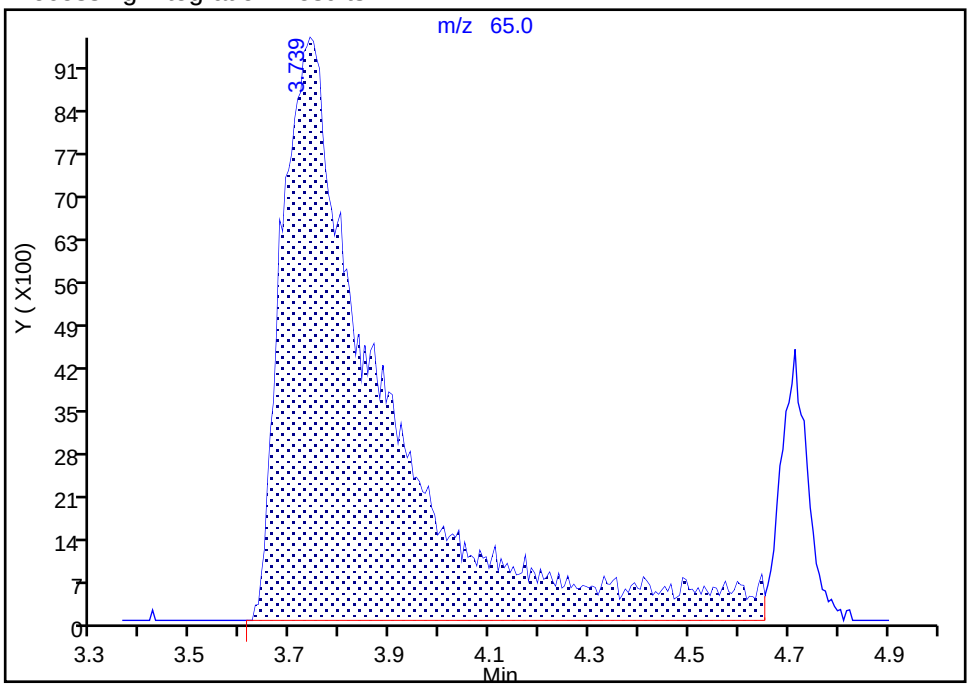
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D
Injection Date: 22-Aug-2022 20:34:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

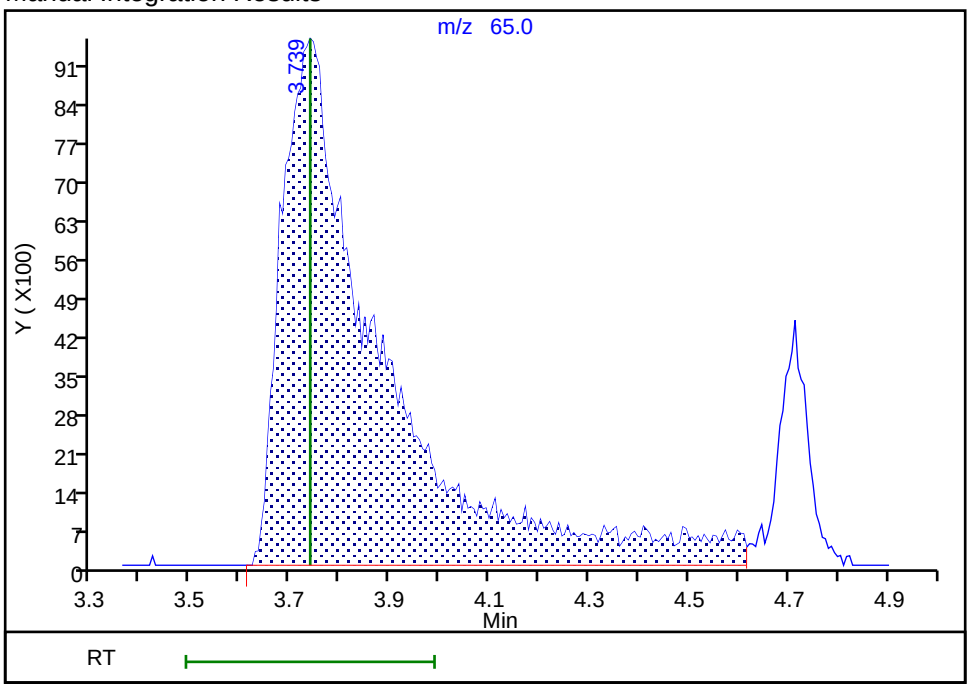
Processing Integration Results

RT: 3.74
Area: 133076
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 3.74
Area: 132044
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:26:45
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

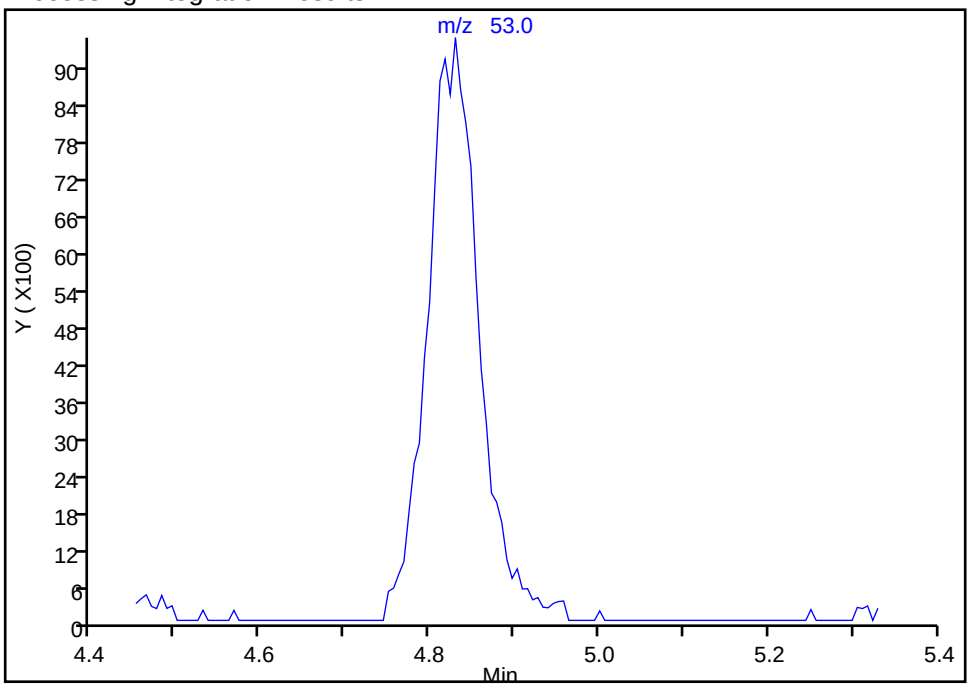
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D				
Injection Date:	22-Aug-2022 20:34:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

39 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

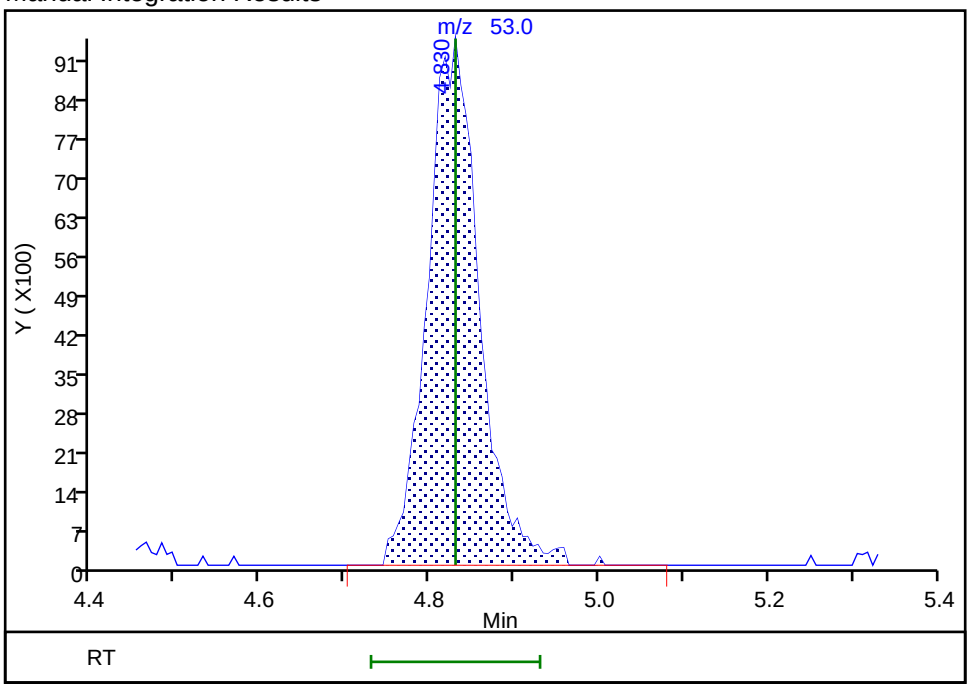
Not Detected
Expected RT: 4.83

Processing Integration Results



Manual Integration Results

RT: 4.83
Area: 40233
Amount: 0.519925
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:26:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

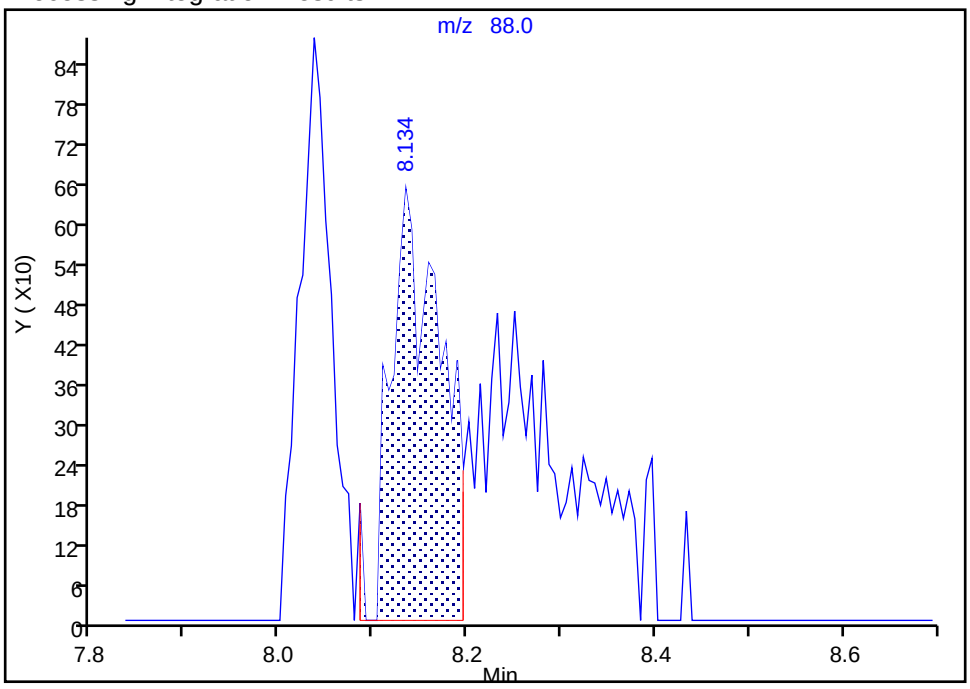
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D
Injection Date: 22-Aug-2022 20:34:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

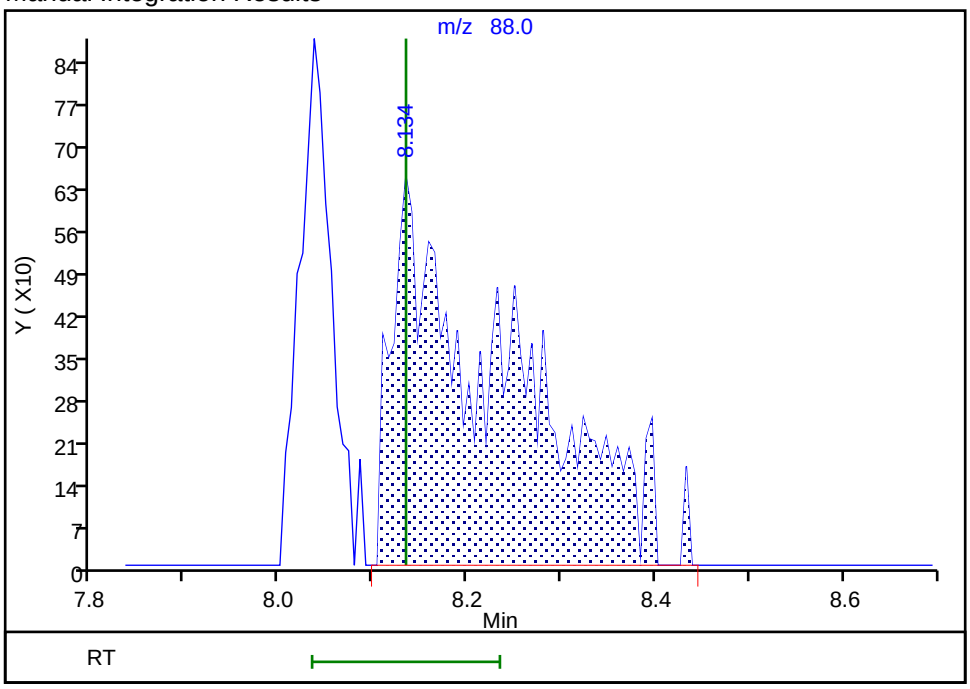
Processing Integration Results

RT: 8.13
Area: 2417
Amount: 19.433552
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 5353
Amount: 29.926719
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:27:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X14.D
Lims ID: IC std3 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Aug-2022 20:57:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-015
Misc. Info.: IC STD1 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:32 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 09:28:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.758	1.764	-0.006	99	58173	1.00	1.03	
5 Chloromethane	50	1.934	1.940	-0.006	99	76690	1.00	1.03	
6 Vinyl chloride	62	2.032	2.038	-0.006	97	67575	1.00	0.9762	
7 Butadiene	39	2.044	2.050	-0.006	91	73797	1.00	1.00	
9 Bromomethane	94	2.325	2.331	-0.007	90	45642	1.00	0.99	
10 Chloroethane	64	2.385	2.398	-0.013	100	41484	1.00	1.03	
11 Dichlorofluoromethane	67	2.611	2.617	-0.006	97	92839	1.00	1.00	
12 Trichlorofluoromethane	101	2.666	2.672	-0.006	97	78889	1.00	1.00	
13 Pentane	43	2.672	2.678	-0.006	97	67620	1.00	0.9712	
15 Ethyl ether	59	2.861	2.861	0.000	94	39448	1.00	0.9796	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.946	2.959	-0.013	92	60094	1.00	0.9824	
17 Acrolein	56	3.013	3.013	0.000	100	281866	50.0	54.3	
19 1,1-Dichloroethene	96	3.129	3.135	-0.006	98	42670	1.00	0.9804	
20 Acetone	43	3.166	3.166	0.000	86	59190	10.0	10.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.166	3.178	-0.012	91	41348	1.00	1.01	
22 Iodomethane	142	3.294	3.300	-0.006	98	78848	1.00	0.9843	
23 Isopropyl alcohol	45	3.318	3.318	0.000	37	23037	20.0	17.9	
24 Ethyl bromide	108	3.318	3.324	-0.006	98	41770	1.00	1.02	
25 Carbon disulfide	76	3.391	3.391	0.000	100	132499	1.00	0.9843	
27 Methyl acetate	43	3.532	3.532	0.000	33	16317	1.00	0.9497	
28 3-Chloro-1-propene	41	3.538	3.544	-0.006	94	78695	1.00	0.9806	
29 Methylene Chloride	84	3.702	3.708	-0.006	92	51086	1.00	0.9899	
* 30 t-Butyl alcohol-d10 (IS)	65	3.751	3.739	0.012	89	113154	50.0	50.0	
31 2-Methyl-2-propanol	59	3.830	3.849	-0.019	99	55542	20.0	23.6	
32 Acrylonitrile	53	4.038	4.019	0.019	29	24651	2.50	2.81	
33 Methyl tert-butyl ether	73	4.062	4.068	-0.006	90	129375	1.00	0.9788	
34 trans-1,2-Dichloroethene	96	4.068	4.074	-0.006	98	53191	1.00	0.99	
35 Hexane	57	4.464	4.470	-0.006	93	70201	1.00	0.9760	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	98507	1.00	1.00	
38 Isopropyl ether	45	4.775	4.787	-0.012	95	179263	1.00	0.9879	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.824	4.830	-0.006	90	76284	1.00	0.9894	
40 Tert-butyl ethyl ether	59	5.324	5.330	-0.006	98	166424	1.00	0.99	
41 2-Butanone (MEK)	43	5.549	5.543	0.006	99	128408	10.0	10.8	
42 cis-1,2-Dichloroethene	96	5.568	5.574	-0.006	81	58902	1.00	1.00	
43 2,2-Dichloropropane	77	5.580	5.586	-0.006	65	76415	1.00	0.9803	
45 Propionitrile	54	5.641	5.635	0.006	98	62435	20.0	21.1	
46 Methacrylonitrile	67	5.848	5.860	-0.012	92	137272	10.0	10.9	
47 Chlorobromomethane	128	5.909	5.909	0.000	95	25966	1.00	1.00	
48 Tetrahydrofuran	71	5.921	5.927	-0.006	77	18506	5.00	5.49	a
50 Chloroform	83	6.068	6.074	-0.006	93	93605	1.00	1.01	
S 51 1,2-Dichloroethene, Total	100				0			1.99	
52 1,1,1-Trichloroethane	97	6.281	6.293	-0.012	96	82747	1.00	1.02	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	463253	10.0	10.0	
54 Cyclohexane	56	6.385	6.385	0.000	91	90500	1.00	0.9894	
55 Carbon tetrachloride	117	6.494	6.501	-0.007	83	67141	1.00	0.9837	
56 1,1-Dichloropropene	75	6.507	6.513	-0.006	96	73903	1.00	0.9726	
57 Isobutyl alcohol	41	6.714	6.708	0.006	95	43717	50.0	52.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.750	6.757	-0.007	93	94021	10.0	9.89	
59 Benzene	78	6.769	6.775	-0.006	94	225053	1.00	0.9885	
61 1,2-Dichloroethane	62	6.854	6.860	-0.006	97	57929	1.00	1.00	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	150940	1.00	1.00	
* 64 Fluorobenzene (IS)	96	7.189	7.196	-0.007	99	1978464	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	94	79351	1.00	0.9706	
66 n-Butanol	56	7.634	7.622	0.012	91	61837	87.5	92.1	
67 Trichloroethene	95	7.677	7.683	-0.006	97	56668	1.00	0.9708	
68 Methylcyclohexane	83	7.982	7.982	0.000	90	95136	1.00	0.9801	
69 1,2-Dichloropropane	63	8.019	8.025	-0.006	97	60237	1.00	1.00	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	92	85851	1.00	0.9735	
71 Methyl methacrylate	69	8.134	8.128	0.006	92	24944	1.00	1.09	
72 1,4-Dioxane	88	8.147	8.134	0.013	32	7798	50.0	48.2	M
73 Dibromomethane	93	8.134	8.134	0.000	94	26280	1.00	0.9738	
75 Dichlorobromomethane	83	8.378	8.384	-0.006	99	65882	1.00	0.99	
76 2-Nitropropane	41	8.671	8.665	0.006	98	31793	5.00	4.87	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	60548	1.00	1.00	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	83617	1.00	0.9600	
81 4-Methyl-2-pentanone (MIBK)	43	9.152	9.159	-0.007	97	342665	10.0	10.7	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	1995655	10.0	10.0	
83 Toluene	92	9.366	9.366	0.000	98	146835	1.00	1.00	
84 trans-1,3-Dichloropropene	75	9.665	9.658	0.007	92	69149	1.00	0.9788	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	54040	1.00	0.9462	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	40627	1.00	1.00	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	67675	1.00	0.9892	
102 1,3-Dichloropropane	76	10.043	10.043	0.001	90	69965	1.00	1.00	
S 103 1,3-Dichloropropene, Total	100				0			1.94	
104 2-Hexanone	43	10.116	10.116	0.000	97	247070	10.0	10.8	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	46481	1.00	0.9568	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	37064	1.00	0.9686	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1510198	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	97	81147	1.00	0.9695	
110 Chlorobenzene	112	10.859	10.859	0.000	96	173193	1.00	1.00	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	96	55325	1.00	0.9642	
112 Ethylbenzene	91	10.957	10.957	0.000	98	282580	1.00	0.9896	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	230360	2.00	2.01	
S 114 Xylenes, Total	106				0			3.01	
115 o-Xylene	106	11.414	11.414	0.000	96	113031	1.00	0.99	
116 Styrene	104	11.432	11.432	0.000	94	180116	1.00	0.9680	
117 Bromoform	173	11.591	11.591	0.000	98	26326	1.00	0.9289	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	289388	1.00	1.00	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	737027	10.0	10.0	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	78	51538	1.00	1.01	
122 Bromobenzene	156	11.987	11.987	0.000	91	71493	1.00	1.00	
124 trans-1,4-Dichloro-2-butene	53	12.018	12.012	0.006	92	120833	10.0	9.83	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	78	13537	1.00	1.02	
126 N-Propylbenzene	91	12.067	12.067	0.000	99	348619	1.00	1.02	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	72794	1.00	1.01	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	246256	1.00	1.00	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	73677	1.00	1.00	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	54084	1.00	0.99	
131 Pentachloroethane	167	12.481	12.481	0.000	87	39851	1.00	0.9687	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	96	258595	1.00	1.01	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	319377	1.00	1.02	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	147649	1.00	1.01	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	278362	1.00	1.00	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	860455	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	96	150564	1.00	1.01	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	117073	1.00	1.00	
139 Benzyl chloride	126	12.877	12.877	0.000	98	19724	1.00	0.9381	
140 n-Butylbenzene	92	13.030	13.030	0.000	98	141416	1.00	1.00	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	135919	1.00	1.01	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	142120	1.00	1.00	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	85	6274	1.00	0.8738	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	114715	1.00	0.99	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	94997	1.00	0.9751	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	97	49990	1.00	0.99	
149 Naphthalene	128	14.347	14.347	0.000	97	147337	1.00	0.9508	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	76007	1.00	0.9684	
151 2-Methylnaphthalene	142	15.096	15.090	0.006	93	63748	1.00	0.8714	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

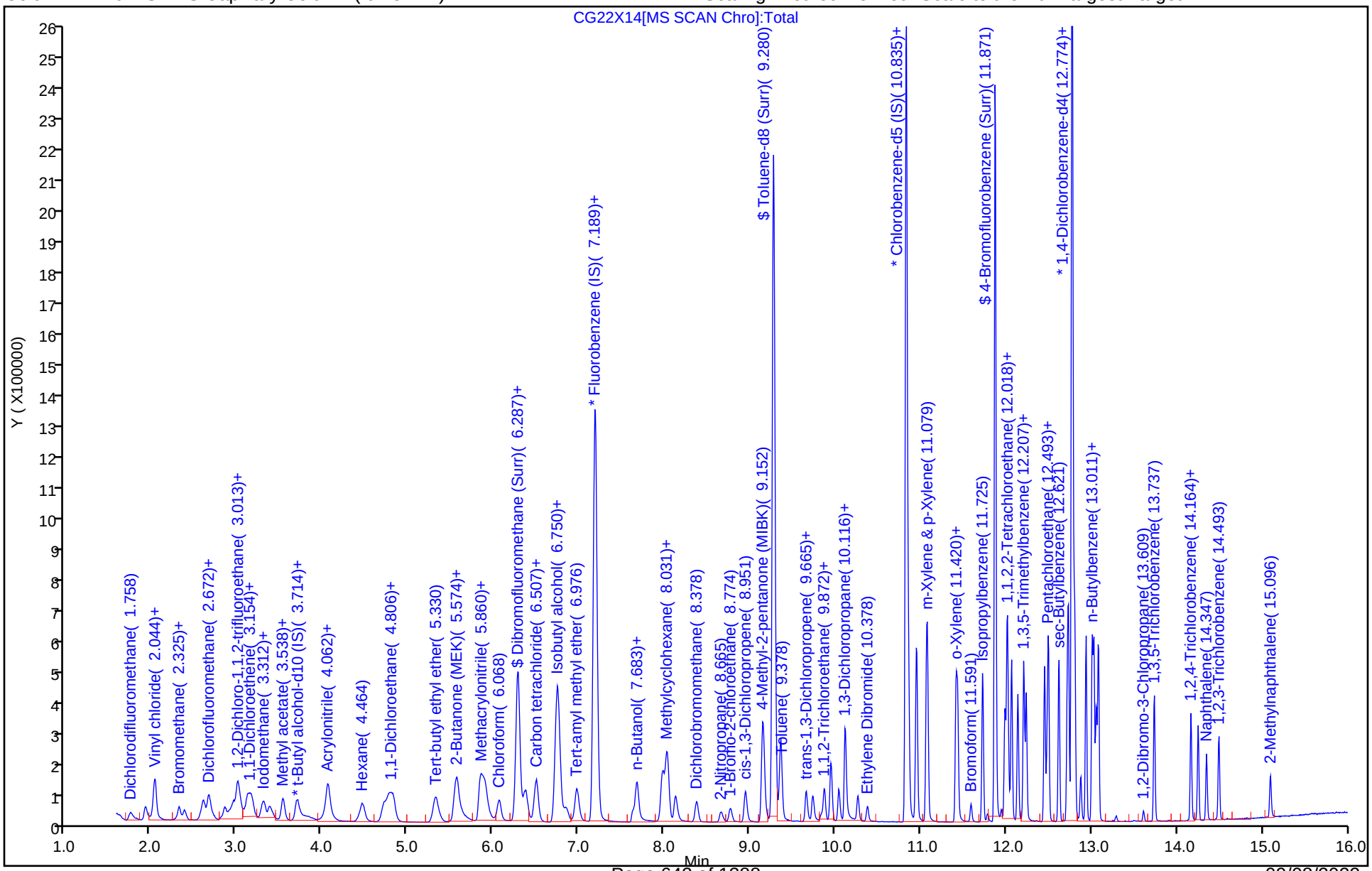
Report Date: 31-Aug-2022 08:31:33 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X14.D

Injection Date:	22-Aug-2022 20:57:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std3 1			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

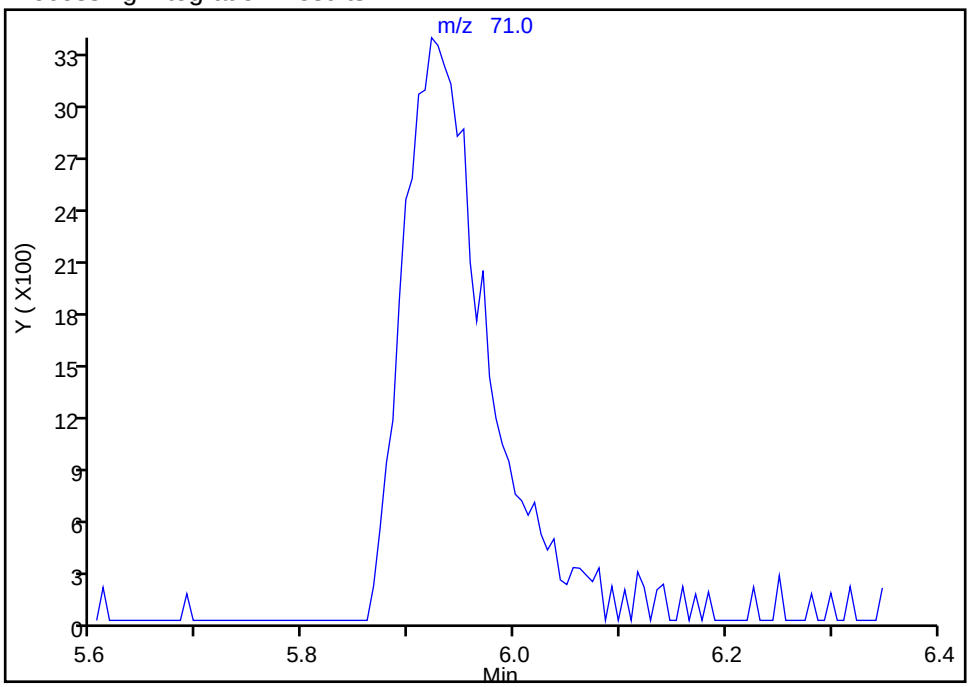
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X14.D				
Injection Date:	22-Aug-2022 20:57:30	Instrument ID:	10193		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

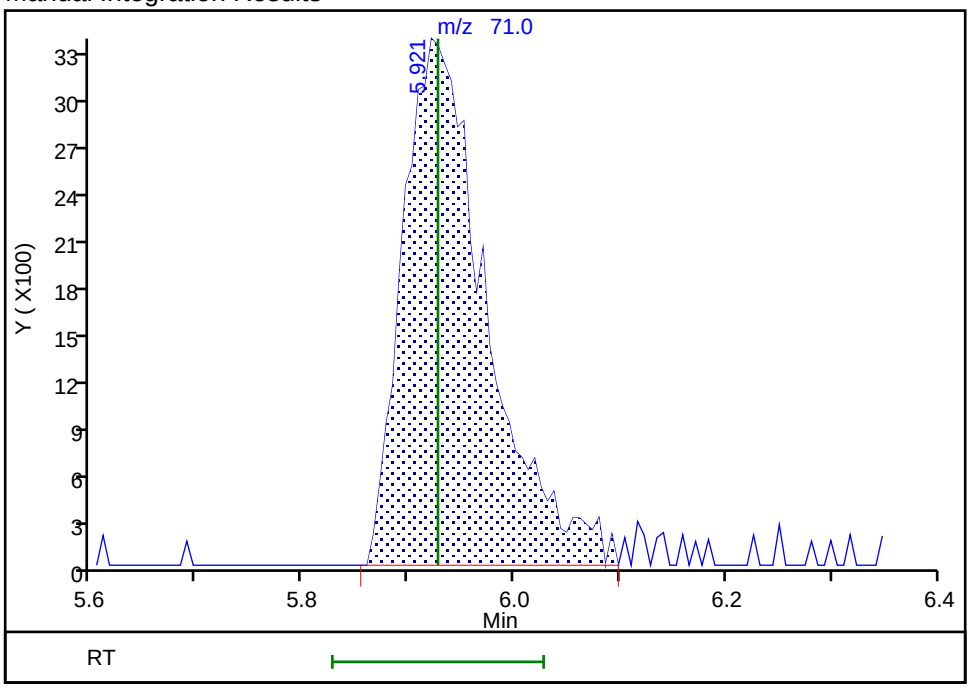
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.92
Area: 18506
Amount: 5.490850
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:28:17
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

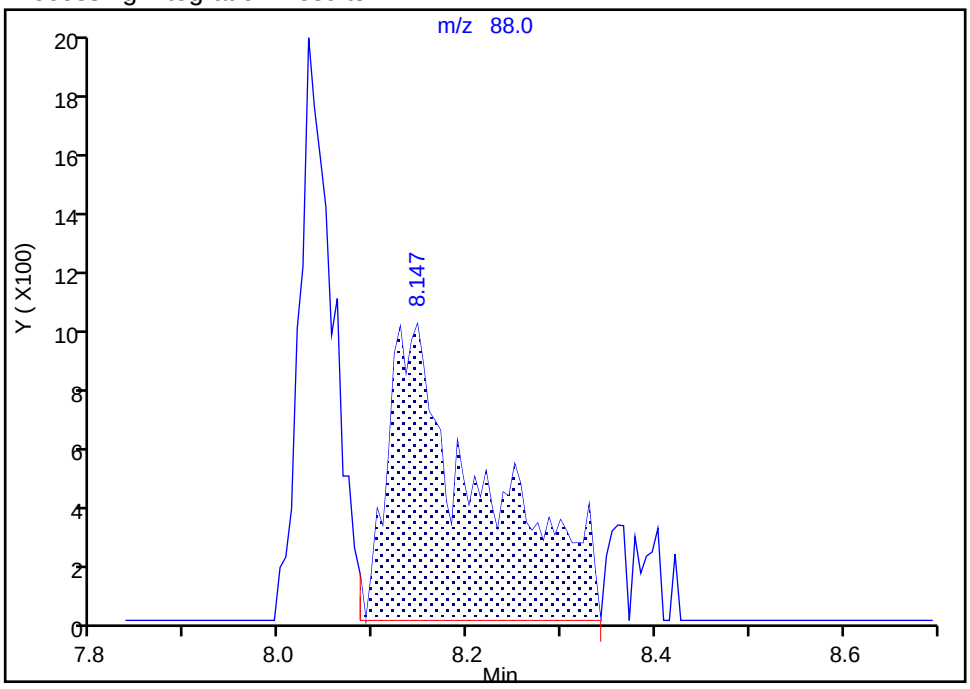
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X14.D				
Injection Date:	22-Aug-2022 20:57:30	Instrument ID:	10193		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

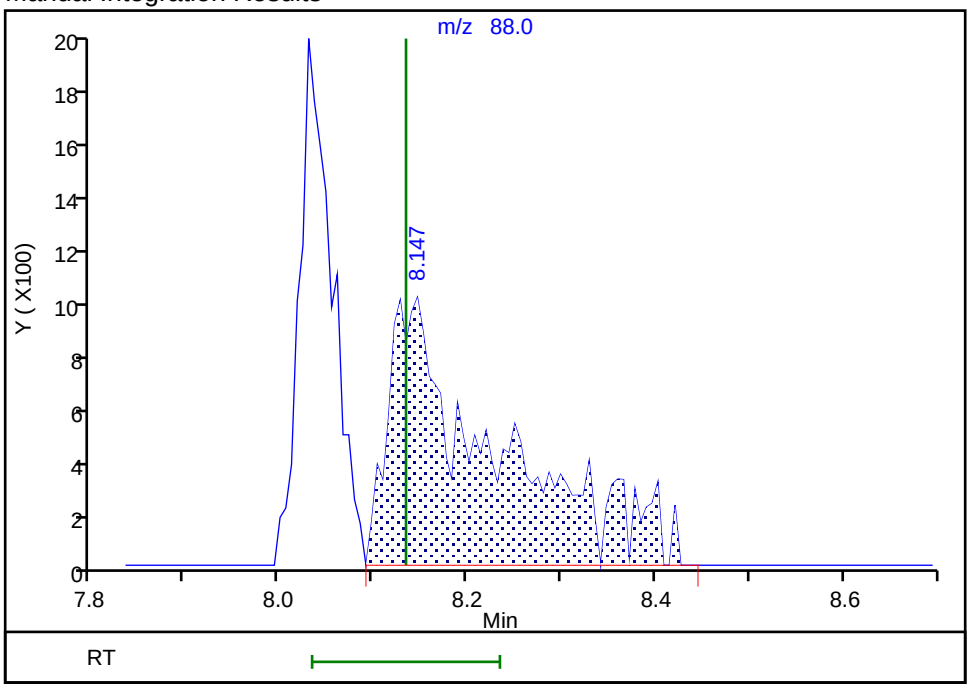
Processing Integration Results

RT: 8.15
Area: 6917
Amount: 47.271840
Amount Units: ug/l



Manual Integration Results

RT: 8.15
Area: 7798
Amount: 48.207501
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:28:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X15.D
Lims ID: IC std4 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Aug-2022 21:19:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-016
Misc. Info.: IC STD2 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:38 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:39:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.764	1.764	0.000	99	117468	2.00	2.08	
5 Chloromethane	50	1.940	1.940	0.000	99	150217	2.00	2.02	
6 Vinyl chloride	62	2.038	2.038	0.000	98	143251	2.00	2.07	
7 Butadiene	39	2.050	2.050	0.000	91	152389	2.00	2.06	
9 Bromomethane	94	2.331	2.331	0.000	91	93538	2.00	2.03	
10 Chloroethane	64	2.391	2.391	0.000	99	81164	2.00	2.02	
11 Dichlorofluoromethane	67	2.611	2.611	0.000	97	187748	2.00	2.02	
12 Trichlorofluoromethane	101	2.672	2.672	0.000	97	164716	2.00	2.10	
13 Pentane	43	2.678	2.678	0.000	98	142039	2.00	2.04	
15 Ethyl ether	59	2.867	2.867	0.000	92	84873	2.00	2.11	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.958	2.958	0.000	92	122486	2.00	2.00	
17 Acrolein	56	3.013	3.013	0.000	99	584522	100.0	108.4	
19 1,1-Dichloroethene	96	3.135	3.135	0.000	97	86755	2.00	2.00	
20 Acetone	43	3.166	3.166	0.000	95	122838	20.0	20.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.178	3.178	0.000	91	84297	2.00	2.06	
22 Iodomethane	142	3.306	3.306	0.000	97	163985	2.00	2.05	
23 Isopropyl alcohol	45	3.300	3.300	0.000	30	51494	40.0	38.5	
24 Ethyl bromide	108	3.330	3.330	0.000	97	83677	2.00	2.05	
25 Carbon disulfide	76	3.397	3.397	0.000	100	273138	2.00	2.03	
27 Methyl acetate	43	3.538	3.538	0.000	24	42677	2.00	2.39	M
28 3-Chloro-1-propene	41	3.550	3.550	0.000	94	162533	2.00	2.03	
29 Methylene Chloride	84	3.708	3.708	0.000	96	104369	2.00	2.02	
* 30 t-Butyl alcohol-d10 (IS)	65	3.751	3.751	0.000	90	117656	50.0	50.0	
31 2-Methyl-2-propanol	59	3.873	3.873	0.000	99	99960	40.0	40.8	
32 Acrylonitrile	53	4.031	4.031	0.000	96	48561	5.00	5.32	
33 Methyl tert-butyl ether	73	4.068	4.068	0.000	94	272217	2.00	2.06	
34 trans-1,2-Dichloroethene	96	4.068	4.068	0.000	98	109559	2.00	2.05	
35 Hexane	57	4.476	4.476	0.000	93	140977	2.00	1.96	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	203004	2.00	2.06	
38 Isopropyl ether	45	4.793	4.793	0.000	96	370270	2.00	2.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.836	4.836	0.000	90	154635	2.00	2.01	
40 Tert-butyl ethyl ether	59	5.330	5.330	0.000	98	341793	2.00	2.04	
41 2-Butanone (MEK)	43	5.549	5.549	0.000	100	268068	20.0	21.7	
42 cis-1,2-Dichloroethene	96	5.574	5.574	0.000	82	118805	2.00	2.02	
43 2,2-Dichloropropane	77	5.580	5.580	0.000	61	164164	2.00	2.11	
45 Propionitrile	54	5.653	5.653	0.000	99	128191	40.0	41.7	
46 Methacrylonitrile	67	5.860	5.860	0.000	92	286005	20.0	21.9	
47 Chlorobromomethane	128	5.909	5.909	0.000	96	53176	2.00	2.05	
48 Tetrahydrofuran	71	5.915	5.915	0.000	64	36440	10.0	10.4	
50 Chloroform	83	6.074	6.074	0.000	93	188148	2.00	2.03	
S 51 1,2-Dichloroethene, Total	100				0			4.07	
52 1,1,1-Trichloroethane	97	6.287	6.287	0.000	55	166622	2.00	2.05	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	458737	10.0	9.93	
54 Cyclohexane	56	6.379	6.379	0.000	91	184387	2.00	2.02	
55 Carbon tetrachloride	117	6.500	6.500	0.000	96	139848	2.00	2.05	
56 1,1-Dichloropropene	75	6.513	6.513	0.000	98	152069	2.00	2.00	
57 Isobutyl alcohol	41	6.714	6.714	0.000	94	86391	100.0	99.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.744	6.744	0.000	81	93896	10.0	9.89	
59 Benzene	78	6.775	6.775	0.000	96	460268	2.00	2.02	
61 1,2-Dichloroethane	62	6.854	6.854	0.000	97	117609	2.00	2.04	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	310776	2.00	2.06	
* 64 Fluorobenzene (IS)	96	7.195	7.195	0.000	98	1976130	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	93	163653	2.00	2.00	
66 n-Butanol	56	7.628	7.628	0.000	88	120790	175.0	173.1	
67 Trichloroethene	95	7.683	7.683	0.000	98	121006	2.00	2.08	
68 Methylcyclohexane	83	7.982	7.982	0.000	91	196076	2.00	2.02	
69 1,2-Dichloropropane	63	8.025	8.025	0.000	97	124387	2.00	2.06	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	93	179004	2.00	2.03	
71 Methyl methacrylate	69	8.128	8.128	0.000	92	51296	2.00	2.15	
72 1,4-Dioxane	88	8.122	8.122	0.000	29	17348	100.0	99.4	
73 Dibromomethane	93	8.134	8.134	0.000	93	55503	2.00	2.06	
75 Dichlorobromomethane	83	8.378	8.378	0.000	99	137205	2.00	2.07	
76 2-Nitropropane	41	8.665	8.665	0.000	99	69212	10.0	10.2	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	123589	2.00	2.05	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	176574	2.00	2.03	
81 4-Methyl-2-pentanone (MIBK)	43	9.158	9.158	0.000	97	721350	20.0	21.6	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	1994377	10.0	10.0	
83 Toluene	92	9.366	9.366	0.000	98	299255	2.00	2.04	
84 trans-1,3-Dichloropropene	75	9.664	9.664	0.000	92	145243	2.00	2.05	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	116133	2.00	2.03	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	89	84210	2.00	2.07	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	140565	2.00	2.05	
102 1,3-Dichloropropane	76	10.042	10.042	0.000	90	145113	2.00	2.07	
S 103 1,3-Dichloropropene, Total	100				0			4.08	
104 2-Hexanone	43	10.116	10.116	0.000	97	510532	20.0	21.5	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	98443	2.00	2.03	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	79714	2.00	2.08	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1510978	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	167760	2.00	2.00	
110 Chlorobenzene	112	10.859	10.859	0.000	97	352259	2.00	2.03	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	96	118338	2.00	2.06	
112 Ethylbenzene	91	10.951	10.951	0.000	98	586626	2.00	2.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	469217	4.00	4.10	
S 114 Xylenes, Total	106				0			6.13	
115 o-Xylene	106	11.414	11.414	0.000	97	231506	2.00	2.04	
116 Styrene	104	11.432	11.432	0.000	95	384630	2.00	2.07	
117 Bromoform	173	11.591	11.591	0.000	97	57517	2.00	2.03	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	589633	2.00	2.04	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	93	735025	10.0	9.98	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	78	106640	2.00	2.07	
122 Bromobenzene	156	11.987	11.987	0.000	92	148658	2.00	2.05	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	92	257721	20.0	20.7	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	77	27317	2.00	2.02	
126 N-Propylbenzene	91	12.066	12.066	0.000	98	719215	2.00	2.07	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	148112	2.00	2.03	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	514383	2.00	2.05	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	151548	2.00	2.03	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	111261	2.00	2.01	
131 Pentachloroethane	167	12.481	12.481	0.000	93	83992	2.00	2.01	
132 1,2,4-Trimethylbenzene	105	12.499	12.499	0.000	97	533692	2.00	2.05	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	653385	2.00	2.05	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	304220	2.00	2.04	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	580567	2.00	2.05	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	93	872795	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	96	308250	2.00	2.03	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	241995	2.00	2.04	
139 Benzyl chloride	126	12.877	12.877	0.000	98	43555	2.00	2.04	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	292535	2.00	2.05	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	280876	2.00	2.05	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	292366	2.00	2.02	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	88	14627	2.00	2.01	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	97	239094	2.00	2.04	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	200037	2.00	2.02	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	96	104110	2.00	2.04	
149 Naphthalene	128	14.346	14.346	0.000	96	315886	2.00	2.01	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	161145	2.00	2.02	
151 2-Methylnaphthalene	142	15.096	15.096	0.000	93	146301	2.00	1.97	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

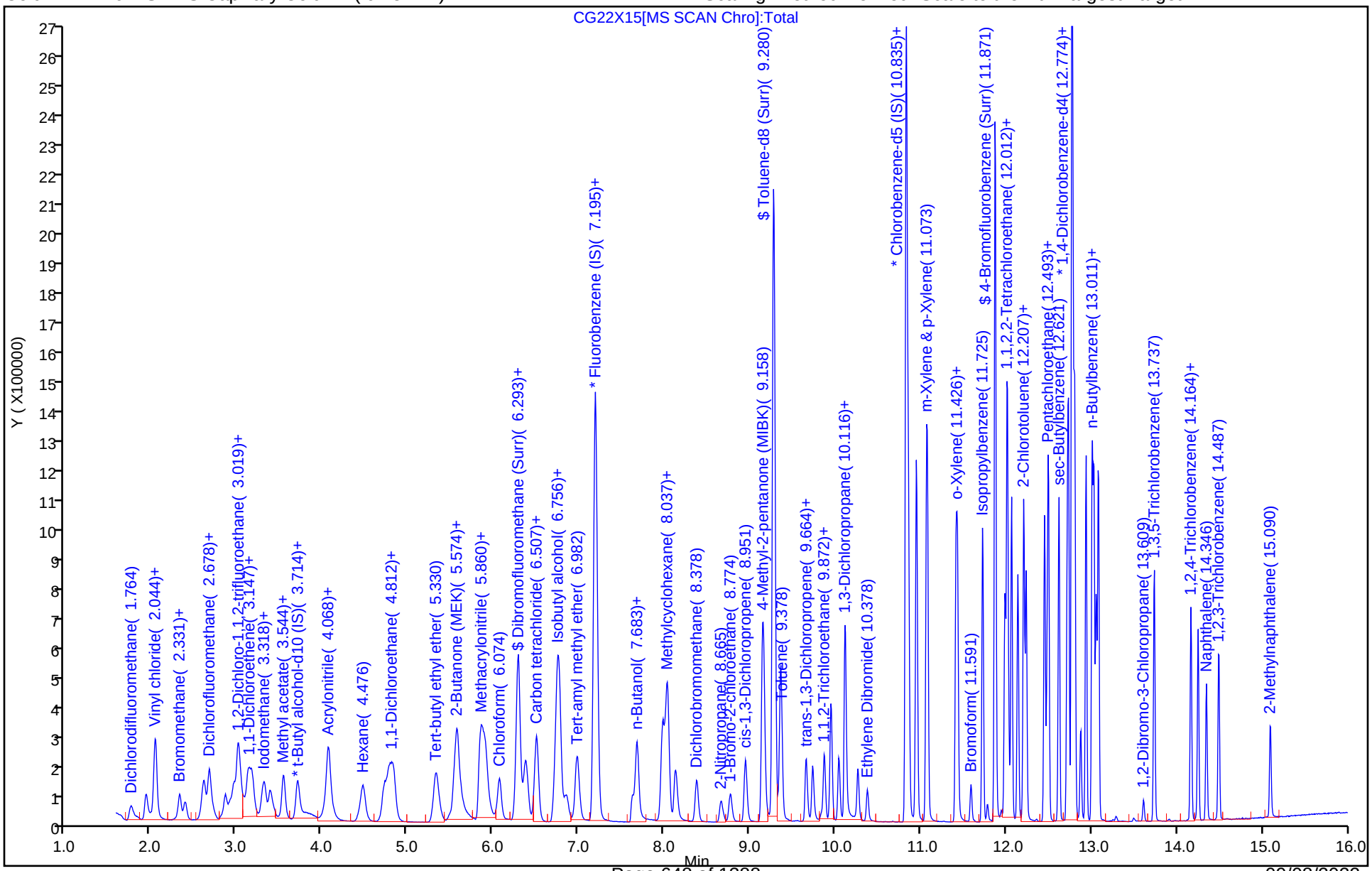
Report Date: 31-Aug-2022 08:31:38 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X15.D

Injection Date:	22-Aug-2022 21:19:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std4 2			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

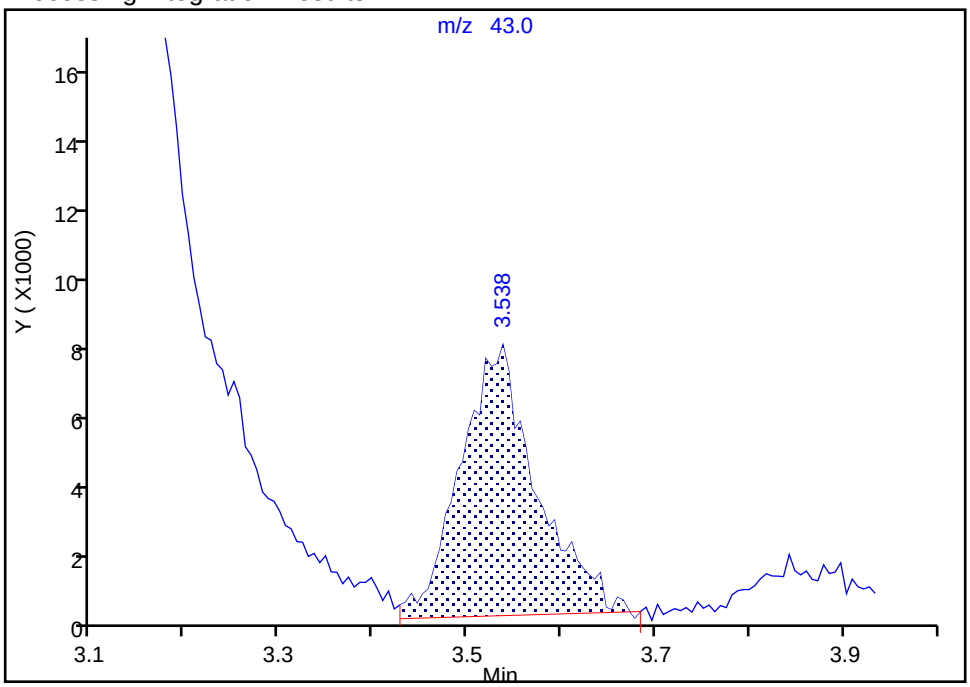
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X15.D				
Injection Date:	22-Aug-2022 21:19:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

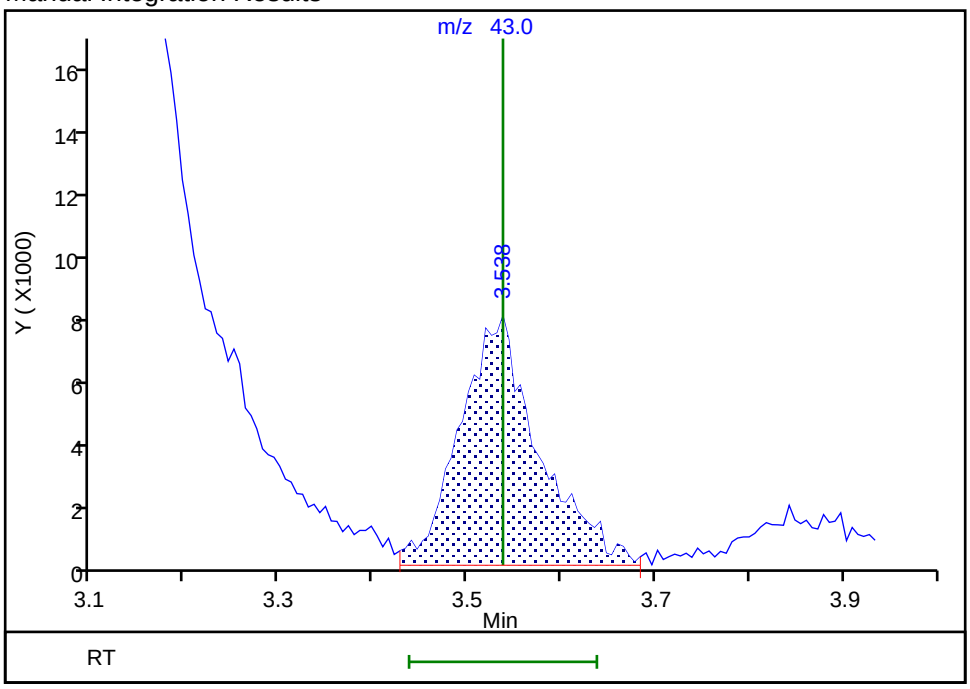
Processing Integration Results

RT: 3.54
Area: 40262
Amount: 2.275613
Amount Units: ug/l



Manual Integration Results

RT: 3.54
Area: 42677
Amount: 2.388818
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:29:27
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X16.D
Lims ID: IC std5 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Aug-2022 21:41:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-017
Misc. Info.: IC STD5 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:44 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 09:31:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.764	1.764	0.000	99	293800	5.00	5.24	
5 Chloromethane	50	1.941	1.940	0.000	99	365920	5.00	4.93	
6 Vinyl chloride	62	2.038	2.038	0.000	98	359428	5.00	5.22	
7 Butadiene	39	2.050	2.050	0.000	92	379643	5.00	5.16	
9 Bromomethane	94	2.331	2.331	0.000	90	233256	5.00	5.10	
10 Chloroethane	64	2.398	2.391	0.007	100	201473	5.00	5.04	
11 Dichlorofluoromethane	67	2.617	2.611	0.006	97	465102	5.00	5.03	
12 Trichlorofluoromethane	101	2.678	2.672	0.006	98	409286	5.00	5.24	
13 Pentane	43	2.678	2.678	0.000	97	359545	5.00	5.19	
15 Ethyl ether	59	2.867	2.867	0.000	92	202566	5.00	5.06	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.959	2.958	0.001	94	302027	5.00	4.97	
17 Acrolein	56	3.013	3.013	0.000	100	1353279	250.0	223.8	
19 1,1-Dichloroethene	96	3.135	3.135	0.000	98	216909	5.00	5.01	
20 Acetone	43	3.172	3.166	0.006	77	284011	50.0	41.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.178	3.178	0.000	92	216833	5.00	5.32	
23 Isopropyl alcohol	45	3.318	3.300	0.018	37	131430	100.0	87.6	
22 Iodomethane	142	3.306	3.306	0.000	97	406462	5.00	5.10	
24 Ethyl bromide	108	3.330	3.330	0.000	98	209712	5.00	5.15	
25 Carbon disulfide	76	3.391	3.397	-0.006	99	693267	5.00	5.18	
27 Methyl acetate	43	3.526	3.538	-0.012	96	85311	5.00	4.26	
28 3-Chloro-1-propene	41	3.544	3.550	-0.006	93	405717	5.00	5.09	
29 Methylene Chloride	84	3.708	3.708	0.000	94	257199	5.00	5.01	
* 30 t-Butyl alcohol-d10 (IS)	65	3.745	3.751	-0.006	45	131878	50.0	50.0	
31 2-Methyl-2-propanol	59	3.849	3.873	-0.024	99	224704	100.0	81.8	
32 Acrylonitrile	53	4.019	4.031	-0.012	99	118945	12.5	11.6	
33 Methyl tert-butyl ether	73	4.068	4.068	0.000	95	669039	5.00	5.09	
34 trans-1,2-Dichloroethene	96	4.074	4.068	0.006	98	269017	5.00	5.05	
35 Hexane	57	4.477	4.476	0.001	92	375986	5.00	5.26	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	501664	5.00	5.11	
38 Isopropyl ether	45	4.781	4.793	-0.012	95	916612	5.00	5.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.830	4.836	-0.006	90	388421	5.00	5.07	
40 Tert-butyl ethyl ether	59	5.336	5.330	0.006	98	852261	5.00	5.12	
41 2-Butanone (MEK)	43	5.543	5.549	-0.006	100	657655	50.0	47.5	
42 cis-1,2-Dichloroethene	96	5.580	5.574	0.006	82	300063	5.00	5.14	
43 2,2-Dichloropropane	77	5.580	5.580	0.000	86	394862	5.00	5.10	
45 Propionitrile	54	5.641	5.653	-0.012	99	353271	100.0	102.4	
46 Methacrylonitrile	67	5.860	5.860	0.000	92	717302	50.0	49.0	
47 Chlorobromomethane	128	5.915	5.909	0.006	93	132568	5.00	5.13	
48 Tetrahydrofuran	71	5.915	5.915	0.000	78	92407	25.0	23.5	
50 Chloroform	83	6.074	6.074	0.000	93	465915	5.00	5.04	
S 51 1,2-Dichloroethene, Total	100				0			10.2	
52 1,1,1-Trichloroethane	97	6.287	6.287	0.000	98	414918	5.00	5.13	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	458730	10.0	9.98	
54 Cyclohexane	56	6.385	6.379	0.007	91	477600	5.00	5.25	
55 Carbon tetrachloride	117	6.501	6.500	0.001	96	354085	5.00	5.22	
56 1,1-Dichloropropene	75	6.513	6.513	0.000	98	383816	5.00	5.08	
57 Isobutyl alcohol	41	6.714	6.714	0.000	93	227353	250.0	233.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.751	6.744	0.007	95	92628	10.0	9.80	
59 Benzene	78	6.775	6.775	0.000	97	1153651	5.00	5.10	
61 1,2-Dichloroethane	62	6.854	6.854	0.000	97	271805	5.00	4.74	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	764987	5.00	5.09	
* 64 Fluorobenzene (IS)	96	7.196	7.195	0.001	99	1966718	10.0	10.0	
65 n-Heptane	43	7.214	7.208	0.006	95	418190	5.00	5.15	
66 n-Butanol	56	7.622	7.628	-0.006	88	370766	437.5	473.9	
67 Trichloroethene	95	7.683	7.683	0.000	98	297519	5.00	5.13	
68 Methylcyclohexane	83	7.982	7.982	0.000	90	515209	5.00	5.34	
69 1,2-Dichloropropane	63	8.019	8.025	-0.006	98	305654	5.00	5.08	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	92	449657	5.00	5.13	
72 1,4-Dioxane	88	8.134	8.122	0.012	32	49073	250.0	251.5	M
71 Methyl methacrylate	69	8.128	8.128	0.000	92	132554	5.00	4.96	
73 Dibromomethane	93	8.134	8.134	0.000	94	136357	5.00	5.08	
75 Dichlorobromomethane	83	8.378	8.378	0.000	99	339449	5.00	5.14	
76 2-Nitropropane	41	8.665	8.665	0.000	98	179082	25.0	23.6	
78 1-Bromo-2-chloroethane	63	8.775	8.774	0.001	98	312292	5.00	5.21	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	456604	5.00	5.27	
81 4-Methyl-2-pentanone (MIBK)	43	9.159	9.158	0.001	96	1851510	50.0	49.4	
$ 82 Toluene-d8 (Surr)	98	9.281	9.280	0.001	93	2002030	10.0	9.98	
83 Toluene	92	9.366	9.366	0.000	98	752839	5.00	5.08	
84 trans-1,3-Dichloropropene	75	9.659	9.664	-0.006	92	375505	5.00	5.27	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	302935	5.00	5.26	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	207585	5.00	5.06	
87 Tetrachloroethene	166	9.957	9.951	0.006	97	355454	5.00	5.15	
102 1,3-Dichloropropane	76	10.043	10.042	0.001	90	366005	5.00	5.17	
S 103 1,3-Dichloropropene, Total	100				0			10.5	
104 2-Hexanone	43	10.116	10.116	0.000	96	1349331	50.0	50.8	
106 Chlorodibromomethane	129	10.268	10.268	0.000	89	257820	5.00	5.26	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	199120	5.00	5.16	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	84	1523078	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	422503	5.00	5.01	
110 Chlorobenzene	112	10.859	10.859	0.000	96	882611	5.00	5.05	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	97	298570	5.00	5.16	
112 Ethylbenzene	91	10.957	10.951	0.006	98	1471927	5.00	5.11	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	1187447	10.0	10.3	
S 114 Xylenes, Total	106				0			15.4	
115 o-Xylene	106	11.414	11.414	0.000	96	591255	5.00	5.16	
116 Styrene	104	11.433	11.432	0.001	95	973785	5.00	5.19	
117 Bromoform	173	11.591	11.591	0.000	98	150577	5.00	5.27	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	1507786	5.00	5.17	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	742687	10.0	10.0	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	71	264788	5.00	5.05	
122 Bromobenzene	156	11.987	11.987	0.000	91	368252	5.00	4.99	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	90	651340	50.0	51.4	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	78	68664	5.00	5.01	
126 N-Propylbenzene	91	12.067	12.066	0.001	99	1818248	5.00	5.14	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	374593	5.00	5.06	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	1304146	5.00	5.12	
129 4-Chlorotoluene	126	12.237	12.237	0.000	96	392996	5.00	5.17	
130 tert-Butylbenzene	134	12.451	12.451	0.001	93	302846	5.00	5.40	
131 Pentachloroethane	167	12.481	12.481	0.000	94	226588	5.00	5.34	
132 1,2,4-Trimethylbenzene	105	12.499	12.499	0.000	96	1363905	5.00	5.16	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	1673386	5.00	5.17	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	766080	5.00	5.07	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	1478589	5.00	5.13	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	886836	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	95	775609	5.00	5.02	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	607653	5.00	5.04	
139 Benzyl chloride	126	12.877	12.877	0.000	98	116673	5.00	5.38	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	750462	5.00	5.17	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	701375	5.00	5.04	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	746795	5.00	5.09	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	40444	5.00	5.46	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	612369	5.00	5.14	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	522154	5.00	5.20	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	96	262775	5.00	5.07	
149 Naphthalene	128	14.347	14.346	0.001	97	852539	5.00	5.34	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	425824	5.00	5.26	
151 2-Methylnaphthalene	142	15.090	15.096	-0.006	92	437968	5.00	5.81	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00053	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	5.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 31-Aug-2022 08:31:44 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X16.D

Injection Date: 22-Aug-2022 21:41:30 Instrument ID: 10193 Operator ID: knk41612

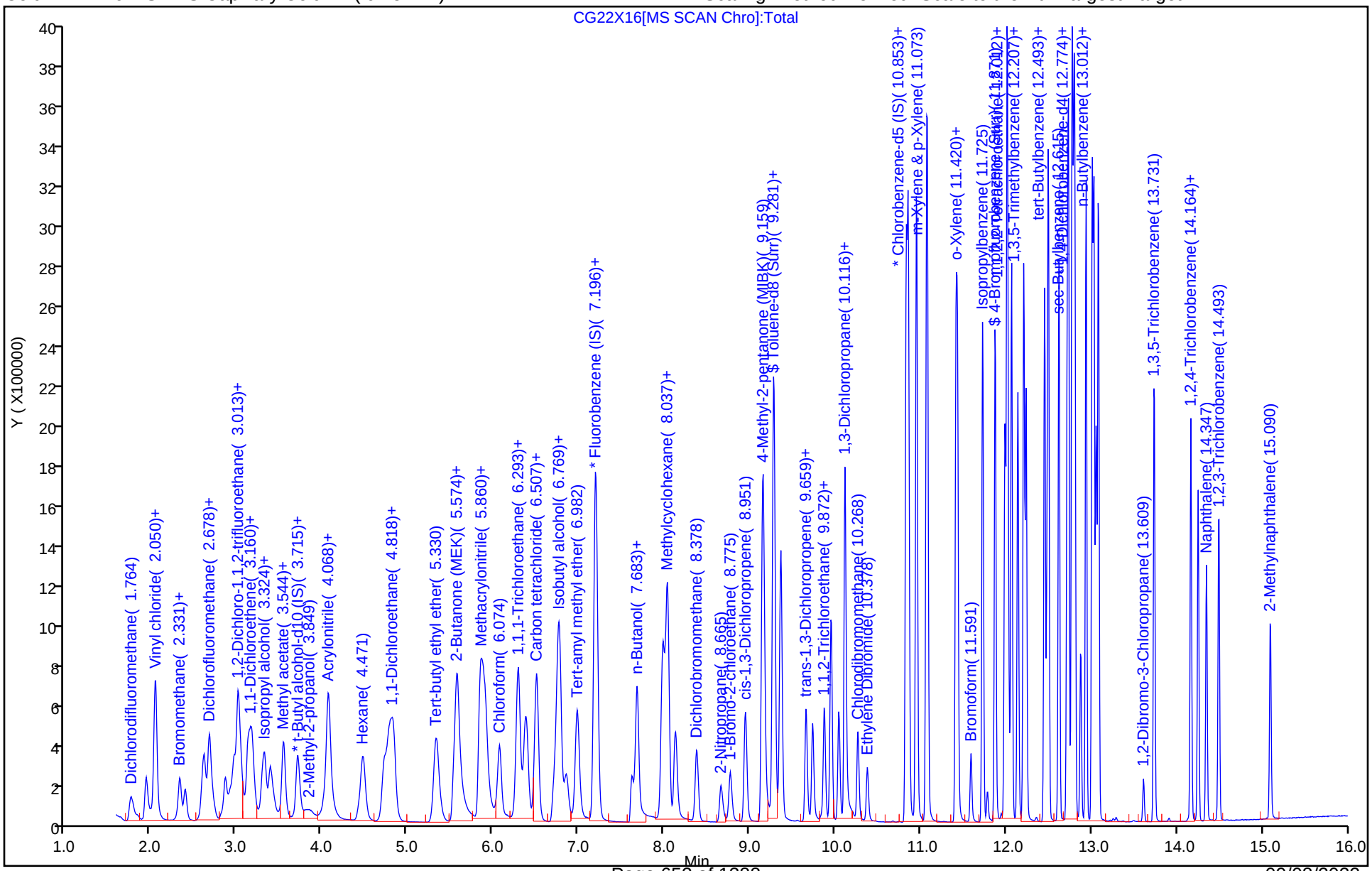
Lims ID: IC std5 5 Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 16

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

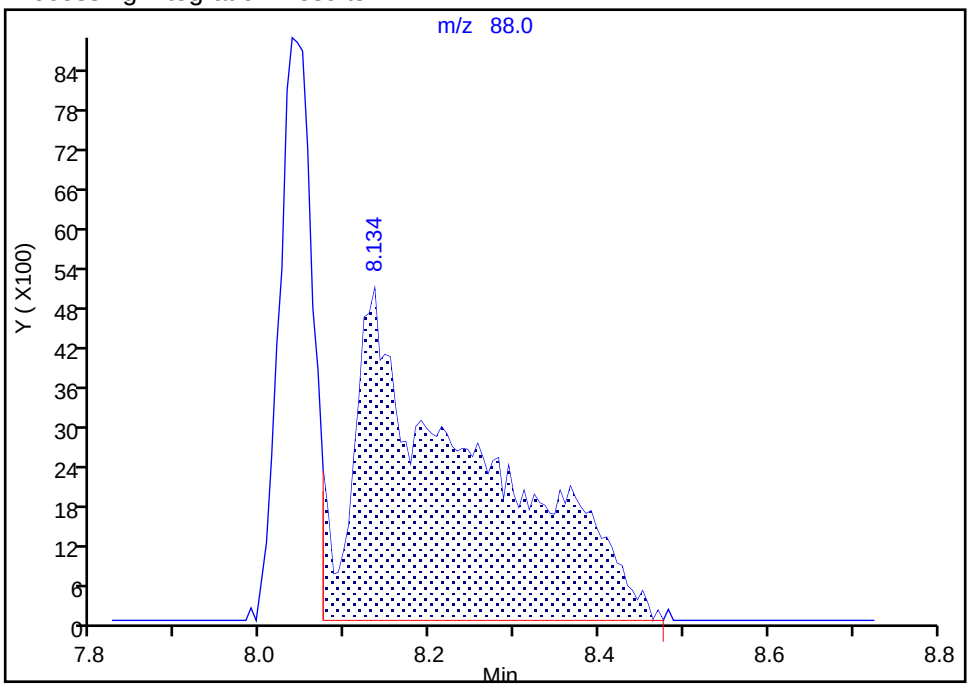
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X16.D				
Injection Date:	22-Aug-2022 21:41:30	Instrument ID:	10193		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

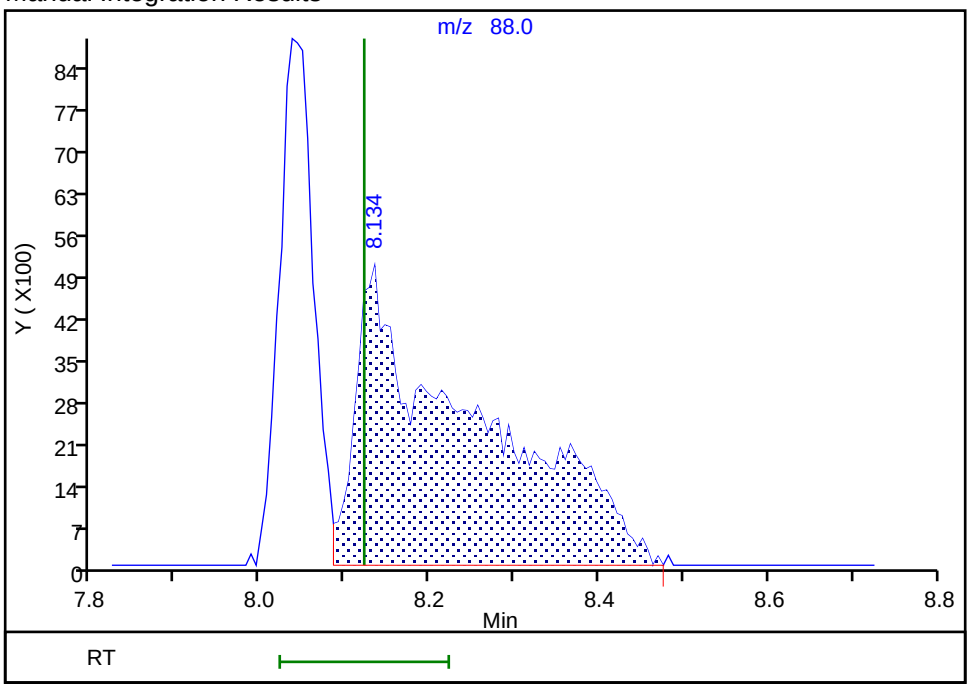
Processing Integration Results

RT: 8.13
Area: 50492
Amount: 258.2894
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 49073
Amount: 251.4945
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:31:22

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X17.D
Lims ID: ICIS 10
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 22-Aug-2022 22:04:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-018
Misc. Info.: IC STD10 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:49 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 09:20:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.764	1.764	0.000	99	551391	10.0	9.72	
5 Chloromethane	50	1.940	1.940	0.000	99	702218	10.0	9.36	
6 Vinyl chloride	62	2.038	2.038	0.000	98	668019	10.0	9.60	
7 Butadiene	39	2.050	2.050	0.000	91	707641	10.0	9.51	
9 Bromomethane	94	2.331	2.331	0.000	89	447646	10.0	9.67	
10 Chloroethane	64	2.398	2.398	0.000	100	381713	10.0	9.44	
11 Dichlorofluoromethane	67	2.617	2.617	0.000	97	883302	10.0	9.46	
12 Trichlorofluoromethane	101	2.672	2.672	0.000	96	768569	10.0	9.74	
13 Pentane	43	2.678	2.678	0.000	97	652133	10.0	9.32	
15 Ethyl ether	59	2.861	2.861	0.000	92	403748	10.0	9.98	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.959	2.959	0.000	93	577792	10.0	9.40	
17 Acrolein	56	3.013	3.013	0.000	100	2878823	500.0	484.1	
19 1,1-Dichloroethene	96	3.135	3.135	0.000	98	420214	10.0	9.61	
20 Acetone	43	3.166	3.166	0.000	100	586839	100.0	87.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.178	3.178	0.000	92	391381	10.0	9.50	
23 Isopropyl alcohol	45	3.318	3.318	0.000	37	274962	200.0	186.4	
22 Iodomethane	142	3.300	3.300	0.000	97	795081	10.0	9.88	
24 Ethyl bromide	108	3.324	3.324	0.000	98	406210	10.0	9.87	
25 Carbon disulfide	76	3.391	3.391	0.000	99	1356041	10.0	10.0	
27 Methyl acetate	43	3.532	3.532	0.000	36	186144	10.0	9.45	
28 3-Chloro-1-propene	41	3.544	3.544	0.000	93	790937	10.0	9.81	
29 Methylene Chloride	84	3.708	3.708	0.000	94	506891	10.0	9.77	
* 30 t-Butyl alcohol-d10 (IS)	65	3.745	3.745	0.000	47	129707	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.849	3.849	0.000	100	492429	200.0	182.2	M
32 Acrylonitrile	53	4.019	4.019	0.000	97	237647	25.0	23.6	
33 Methyl tert-butyl ether	73	4.068	4.068	0.000	91	1317373	10.0	9.92	
34 trans-1,2-Dichloroethene	96	4.074	4.074	0.000	99	522027	10.0	9.69	
35 Hexane	57	4.470	4.470	0.000	92	697755	10.0	9.65	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	974846	10.0	9.83	
38 Isopropyl ether	45	4.787	4.787	0.000	95	1792406	10.0	9.83	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.830	4.830	0.000	90	770625	10.0	9.95	
40 Tert-butyl ethyl ether	59	5.330	5.330	0.000	98	1678851	10.0	9.97	
41 2-Butanone (MEK)	43	5.543	5.543	0.000	100	1312882	100.0	96.3	
42 cis-1,2-Dichloroethene	96	5.574	5.574	0.000	82	582324	10.0	9.86	
43 2,2-Dichloropropane	77	5.586	5.586	0.000	90	764497	10.0	9.76	
45 Propionitrile	54	5.635	5.635	0.000	99	680863	200.0	200.7	
46 Methacrylonitrile	67	5.860	5.860	0.000	93	1412977	100.0	98.1	
47 Chlorobromomethane	128	5.909	5.909	0.000	95	258754	10.0	9.89	
48 Tetrahydrofuran	71	5.927	5.927	0.000	88	182320	50.0	47.2	
50 Chloroform	83	6.074	6.074	0.000	93	914023	10.0	9.78	
52 1,1,1-Trichloroethane	97	6.293	6.293	0.000	98	801358	10.0	9.81	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	80	465740	10.0	10.0	
54 Cyclohexane	56	6.385	6.385	0.000	91	901372	10.0	9.81	
55 Carbon tetrachloride	117	6.501	6.501	0.000	97	687136	10.0	10.0	
56 1,1-Dichloropropene	75	6.513	6.513	0.000	97	748768	10.0	9.80	
57 Isobutyl alcohol	41	6.708	6.708	0.000	95	459860	500.0	479.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.757	6.757	0.000	91	96949	10.0	10.1	
59 Benzene	78	6.775	6.775	0.000	97	2233141	10.0	9.76	
61 1,2-Dichloroethane	62	6.860	6.860	0.000	97	553463	10.0	9.55	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	1522599	10.0	10.0	
* 64 Fluorobenzene (IS)	96	7.196	7.196	0.000	99	1988424	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	93	805860	10.0	9.81	
66 n-Butanol	56	7.622	7.622	0.000	89	733904	875.0	953.8	
67 Trichloroethene	95	7.683	7.683	0.000	98	579842	10.0	9.88	
68 Methylcyclohexane	83	7.982	7.982	0.000	90	961769	10.0	9.86	
69 1,2-Dichloropropane	63	8.025	8.025	0.000	98	598697	10.0	9.85	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	92	900733	10.0	10.2	
72 1,4-Dioxane	88	8.134	8.134	0.000	31	92194	500.0	499.1	
71 Methyl methacrylate	69	8.128	8.128	0.000	93	269988	10.0	10.3	
73 Dibromomethane	93	8.134	8.134	0.000	92	266367	10.0	9.82	
75 Dichlorobromomethane	83	8.384	8.384	0.000	99	673095	10.0	10.1	
76 2-Nitropropane	41	8.665	8.665	0.000	97	364359	50.0	48.7	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	605618	10.0	9.99	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	913681	10.0	10.4	
81 4-Methyl-2-pentanone (MIBK)	43	9.159	9.159	0.000	96	3642524	100.0	98.8	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2005572	10.0	10.0	
83 Toluene	92	9.366	9.366	0.000	98	1452698	10.0	9.81	
84 trans-1,3-Dichloropropene	75	9.658	9.658	0.000	92	749823	10.0	10.5	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	610058	10.0	10.6	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	404572	10.0	9.86	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	682338	10.0	9.89	
102 1,3-Dichloropropane	76	10.043	10.043	0.000	90	705748	10.0	9.96	
104 2-Hexanone	43	10.116	10.116	0.000	96	2660875	100.0	101.9	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	512238	10.0	10.5	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	394261	10.0	10.2	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1523479	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	811122	10.0	9.61	
110 Chlorobenzene	112	10.859	10.859	0.000	96	1718683	10.0	9.84	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	97	584797	10.0	10.1	
112 Ethylbenzene	91	10.957	10.957	0.000	98	2898705	10.0	10.1	
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	2318735	20.0	20.1	
115 o-Xylene	106	11.414	11.414	0.000	96	1149776	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 Styrene	104	11.432	11.432	0.000	95	1930190	10.0	10.3	
117 Bromoform	173	11.591	11.591	0.000	98	304772	10.0	10.7	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	2934036	10.0	10.1	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	93	746355	10.0	10.0	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	71	521855	10.0	9.80	
122 Bromobenzene	156	11.987	11.987	0.000	91	739659	10.0	9.87	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	89	1316632	100.0	102.3	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	78	135978	10.0	9.76	
126 N-Propylbenzene	91	12.067	12.067	0.000	99	3563972	10.0	9.93	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	742687	10.0	9.87	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	2602668	10.0	10.1	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	762667	10.0	9.88	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	564379	10.0	9.90	
131 Pentachloroethane	167	12.481	12.481	0.000	94	452438	10.0	10.5	
132 1,2,4-Trimethylbenzene	105	12.493	12.493	0.000	97	2700369	10.0	10.1	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	3277891	10.0	9.97	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	1524668	10.0	9.93	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	2933697	10.0	10.0	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	93	900908	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	95	1560415	10.0	9.95	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	1203438	10.0	9.83	
139 Benzyl chloride	126	12.877	12.877	0.000	98	237062	10.0	10.8	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	1479651	10.0	10.0	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	1412566	10.0	10.0	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	1474273	10.0	9.88	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	78968	10.0	10.5	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	1217566	10.0	10.1	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	1052807	10.0	10.3	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	96	526010	10.0	9.99	
149 Naphthalene	128	14.347	14.347	0.000	96	1734949	10.0	10.7	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	857542	10.0	10.4	
151 2-Methylnaphthalene	142	15.090	15.090	0.000	92	909593	10.0	11.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

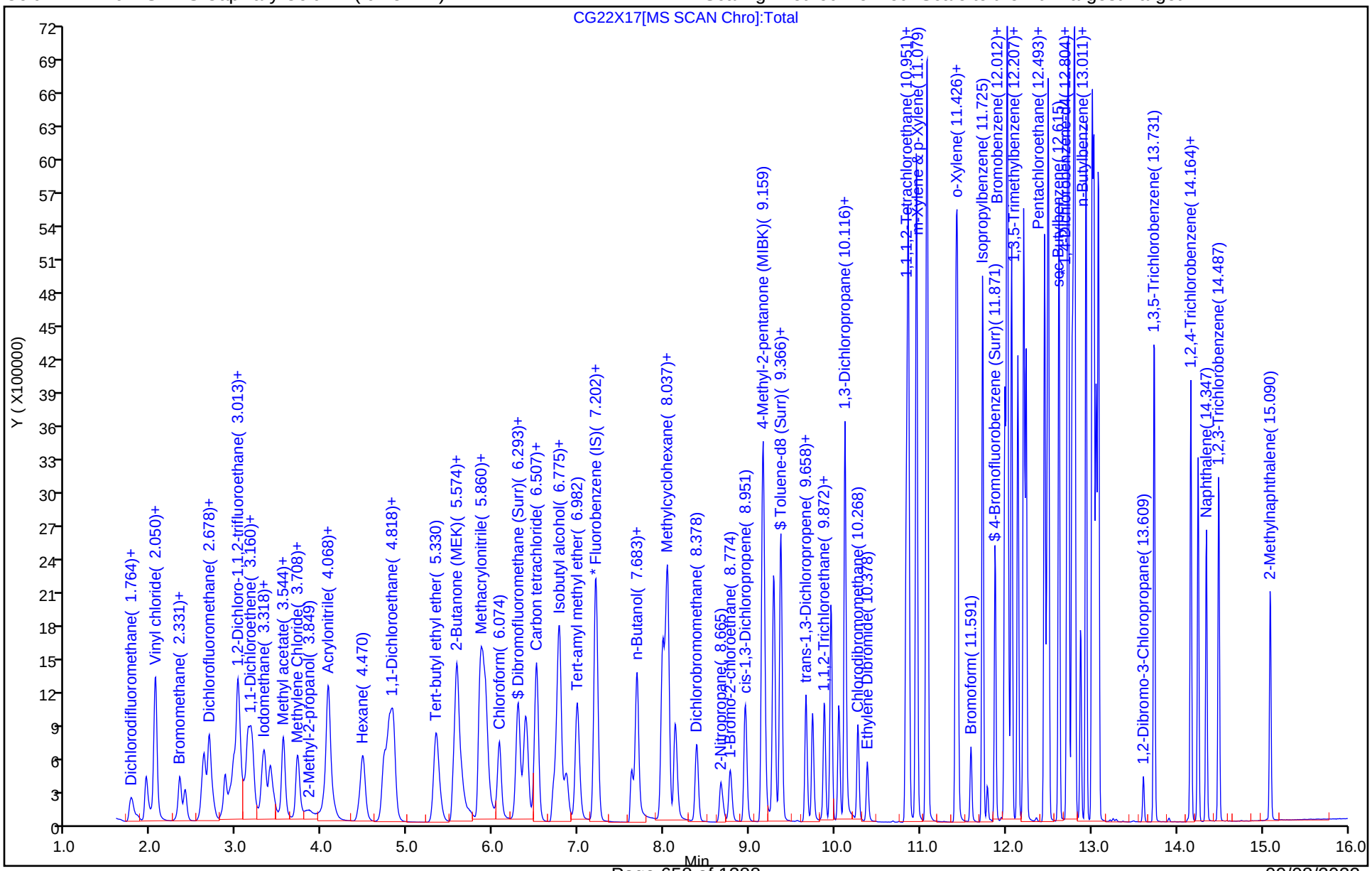
MSV_LL_#1_826_00053	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added: 10.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 31-Aug-2022 08:31:50 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X17.D				
Injection Date:	22-Aug-2022 22:04:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	ICIS 10			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

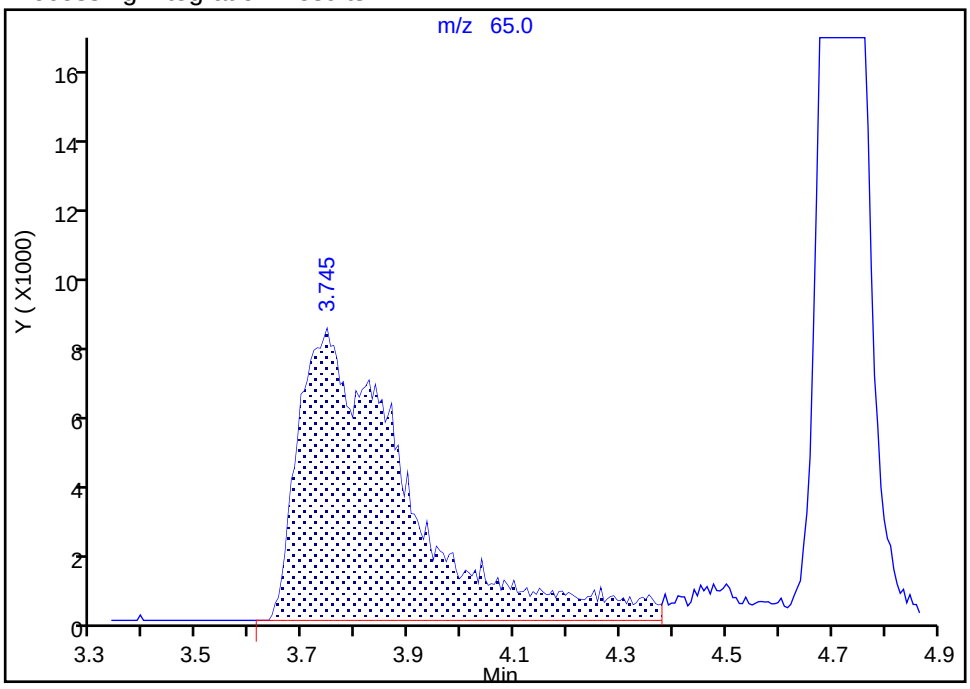
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X17.D				
Injection Date:	22-Aug-2022 22:04:30	Instrument ID:	10193		
Lims ID:	ICIS 10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

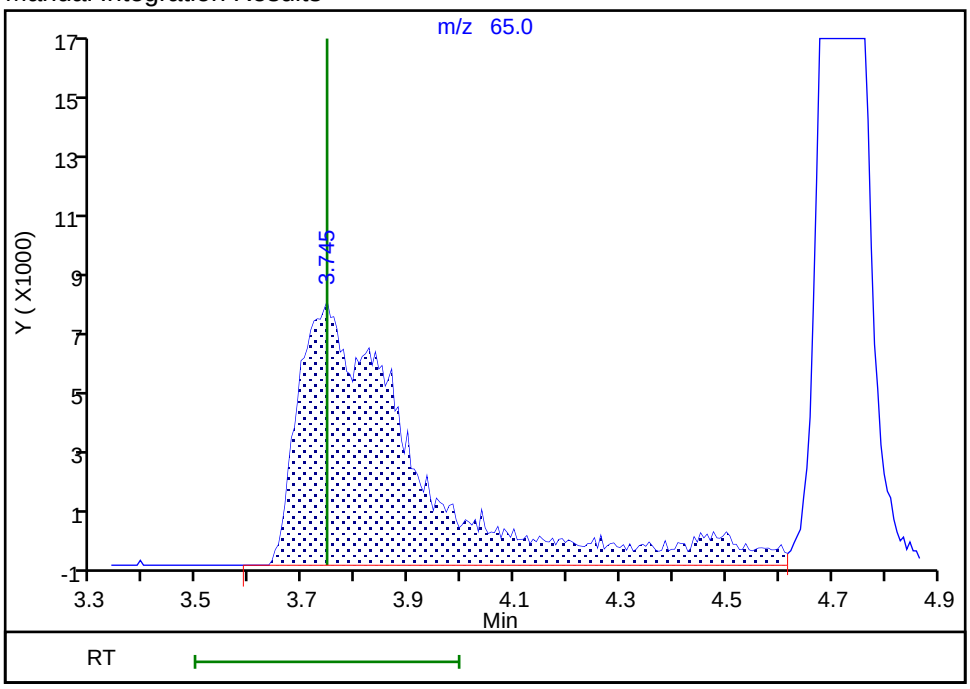
Processing Integration Results

RT: 3.74
Area: 120301
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 3.74
Area: 129707
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:19:14
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

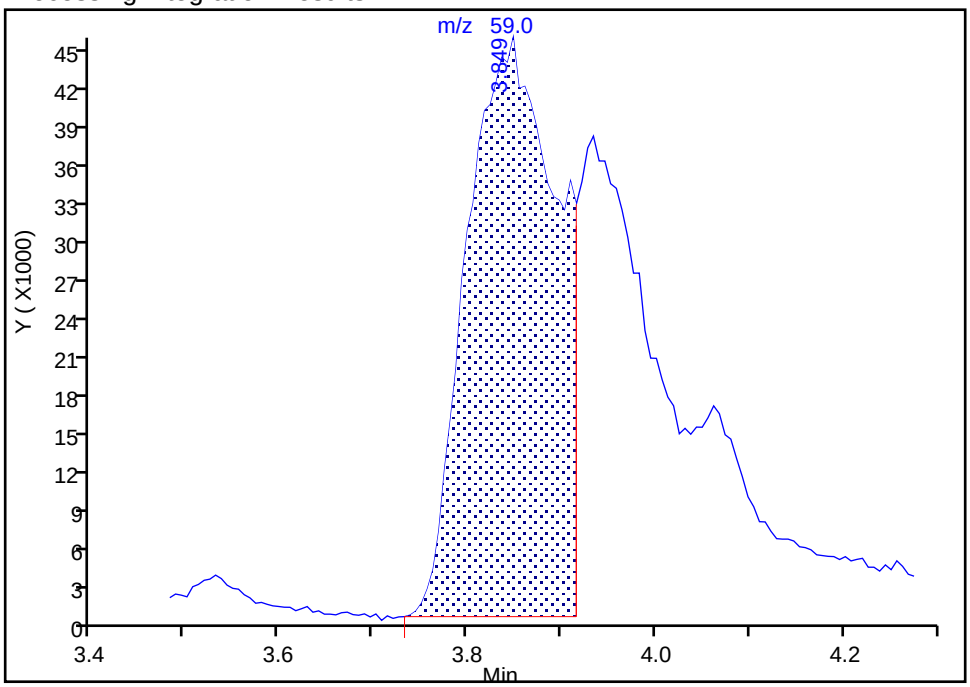
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X17.D
Injection Date: 22-Aug-2022 22:04:30 Instrument ID: 10193
Lims ID: ICIS 10
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

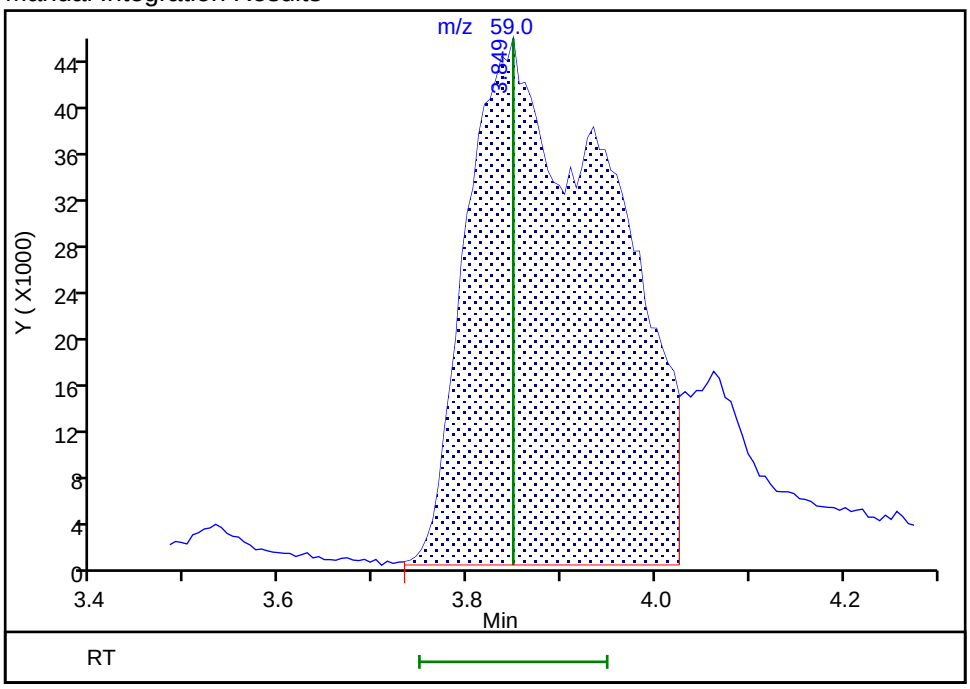
Processing Integration Results

RT: 3.85
Area: 306915
Amount: 117.2326
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 492429
Amount: 182.1553
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:19:40
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D
Lims ID: IC std7 25
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 22-Aug-2022 22:26:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-019
Misc. Info.: IC STD25 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:55 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: UJML Date: 31-Aug-2022 08:30:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.757	1.764	-0.007	99	1410396	25.0	24.5	
5 Chloromethane	50	1.934	1.940	-0.006	99	1779819	25.0	23.4	
6 Vinyl chloride	62	2.032	2.038	-0.006	98	1714605	25.0	24.3	
7 Butadiene	39	2.044	2.050	-0.006	91	1795374	25.0	23.8	
9 Bromomethane	94	2.324	2.331	-0.007	90	1146630	25.0	24.5	
10 Chloroethane	64	2.385	2.398	-0.013	100	963317	25.0	23.5	
11 Dichlorofluoromethane	67	2.611	2.617	-0.006	97	2258999	25.0	23.9	
12 Trichlorofluoromethane	101	2.666	2.672	-0.006	99	1999820	25.0	25.0	
13 Pentane	43	2.672	2.678	-0.006	97	1717969	25.0	24.2	
15 Ethyl ether	59	2.855	2.861	-0.006	92	1020863	25.0	24.9	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.952	2.959	-0.007	93	1499422	25.0	24.1	
17 Acrolein	56	3.007	3.013	-0.006	100	6770476	1250.0	1233.2	
19 1,1-Dichloroethene	96	3.123	3.135	-0.012	98	1076196	25.0	24.3	
20 Acetone	43	3.154	3.166	-0.012	99	1331375	250.0	215.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.172	3.178	-0.006	92	1041622	25.0	25.0	
22 Iodomethane	142	3.294	3.300	-0.006	97	2027086	25.0	24.9	
23 Isopropyl alcohol	45	3.318	3.318	0.000	39	640851	500.0	470.6	
24 Ethyl bromide	108	3.318	3.324	-0.006	98	1050082	25.0	25.2	
25 Carbon disulfide	76	3.385	3.391	-0.006	99	3504627	25.0	25.6	
27 Methyl acetate	43	3.519	3.532	-0.013	98	454980	25.0	25.0	
28 3-Chloro-1-propene	41	3.538	3.544	-0.006	98	2024085	25.0	24.8	
29 Methylene Chloride	84	3.702	3.708	-0.006	93	1278708	25.0	24.3	
* 30 t-Butyl alcohol-d10 (IS)	65	3.751	3.745	0.006	88	119756	50.0	50.0	
31 2-Methyl-2-propanol	59	3.848	3.849	-0.001	100	1155957	500.0	463.1	
32 Acrylonitrile	53	4.013	4.019	-0.006	98	555307	62.5	59.8	
33 Methyl tert-butyl ether	73	4.062	4.068	-0.006	93	3325509	25.0	24.7	
34 trans-1,2-Dichloroethene	96	4.062	4.074	-0.012	99	1331383	25.0	24.4	
35 Hexane	57	4.464	4.470	-0.006	92	1826385	25.0	24.9	
36 1,1-Dichloroethane	63	4.708	4.720	-0.012	96	2479604	25.0	24.7	
38 Isopropyl ether	45	4.775	4.787	-0.012	95	4568886	25.0	24.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.824	4.830	-0.006	90	1997924	25.0	25.5	
40 Tert-butyl ethyl ether	59	5.330	5.330	0.000	98	4241387	25.0	24.9	
41 2-Butanone (MEK)	43	5.543	5.543	0.000	100	3086272	250.0	245.2	
42 cis-1,2-Dichloroethene	96	5.568	5.574	-0.006	82	1473992	25.0	24.7	
43 2,2-Dichloropropane	77	5.586	5.586	0.000	87	1959021	25.0	24.7	
45 Propionitrile	54	5.641	5.635	0.006	99	1495301	500.0	477.4	
46 Methacrylonitrile	67	5.860	5.860	0.000	92	3448269	250.0	259.3	
47 Chlorobromomethane	128	5.909	5.909	0.000	97	664992	25.0	25.1	
48 Tetrahydrofuran	71	5.915	5.927	-0.012	86	440047	125.0	123.4	
50 Chloroform	83	6.068	6.074	-0.006	93	2332920	25.0	24.6	
S 51 1,2-Dichloroethene, Total	100				0			49.1	
52 1,1,1-Trichloroethane	97	6.281	6.293	-0.012	98	2064391	25.0	25.0	
$ 53 Dibromofluoromethane (Surr)	113	6.287	6.293	-0.006	94	473798	10.0	10.1	
54 Cyclohexane	56	6.378	6.385	-0.007	91	2397181	25.0	25.8	
55 Carbon tetrachloride	117	6.494	6.501	-0.007	95	1814532	25.0	26.1	
56 1,1-Dichloropropene	75	6.507	6.513	-0.007	98	1946573	25.0	25.2	
57 Isobutyl alcohol	41	6.708	6.708	0.000	96	1029246	1250.0	1161.7	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.750	6.757	-0.007	87	96466	10.0	9.97	
59 Benzene	78	6.775	6.775	0.000	96	5715737	25.0	24.7	
61 1,2-Dichloroethane	62	6.854	6.860	-0.006	97	1397962	25.0	23.8	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	3840751	25.0	25.0	
* 64 Fluorobenzene (IS)	96	7.189	7.196	-0.007	99	2013656	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	93	2044456	25.0	24.6	
66 n-Butanol	56	7.616	7.622	-0.006	88	1623603	2187.5	2285.5	
67 Trichloroethene	95	7.677	7.683	-0.006	98	1488472	25.0	25.1	
68 Methylcyclohexane	83	7.982	7.982	0.000	92	2536741	25.0	25.7	
69 1,2-Dichloropropane	63	8.018	8.025	-0.007	98	1515441	25.0	24.6	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	93	2289397	25.0	25.5	
71 Methyl methacrylate	69	8.122	8.128	-0.006	93	689382	25.0	28.4	
72 1,4-Dioxane	88	8.128	8.134	-0.006	85	183524	1250.0	1250.1	M
73 Dibromomethane	93	8.128	8.134	-0.006	93	678275	25.0	24.7	
75 Dichlorobromomethane	83	8.378	8.384	-0.006	99	1729627	25.0	25.6	
76 2-Nitropropane	41	8.665	8.665	0.000	97	898761	125.0	130.2	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	1531442	25.0	24.9	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	2313525	25.0	26.1	
81 4-Methyl-2-pentanone (MIBK)	43	9.158	9.159	-0.001	96	8909564	250.0	261.7	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2059118	10.0	10.1	
83 Toluene	92	9.366	9.366	0.000	98	3764778	25.0	25.1	
84 trans-1,3-Dichloropropene	75	9.658	9.658	0.000	92	1947599	25.0	27.0	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	1553687	25.0	26.6	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	1020101	25.0	24.6	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	1756341	25.0	25.1	
102 1,3-Dichloropropane	76	10.042	10.043	0.000	90	1766895	25.0	24.6	
S 103 1,3-Dichloropropene, Total	100				0			53.1	
104 2-Hexanone	43	10.116	10.116	0.000	96	6616151	250.0	274.3	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	1312207	25.0	26.4	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	996887	25.0	25.5	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	86	1542455	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	2117826	25.0	24.8	
110 Chlorobenzene	112	10.859	10.859	0.000	96	4385755	25.0	24.8	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	98	1509448	25.0	25.8	
112 Ethylbenzene	91	10.957	10.957	0.000	98	7445839	25.0	25.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.073	11.079	-0.006	100	5955366	50.0	50.9	
S 114 Xylenes, Total	106				0			76.4	
115 o-Xylene	106	11.414	11.414	0.000	97	2961699	25.0	25.5	
116 Styrene	104	11.432	11.432	0.000	95	4961998	25.0	26.1	
117 Bromoform	173	11.591	11.591	0.000	98	802862	25.0	27.7	
118 Isopropylbenzene	105	11.725	11.725	0.000	96	7467245	25.0	25.3	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	758454	10.0	10.1	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	92	1335844	25.0	24.4	
122 Bromobenzene	156	11.987	11.987	0.000	91	1876425	25.0	24.3	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	89	3434592	250.0	259.4	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	82	338831	25.0	23.6	
126 N-Propylbenzene	91	12.066	12.067	0.000	98	8940228	25.0	24.2	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	1879996	25.0	24.3	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	6681135	25.0	25.1	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	1983516	25.0	25.0	
130 tert-Butylbenzene	134	12.450	12.451	-0.001	93	1467578	25.0	25.0	
131 Pentachloroethane	167	12.481	12.481	0.000	95	1186327	25.0	26.8	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	97	6914040	25.0	25.0	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	8318844	25.0	24.6	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	3905280	25.0	24.7	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	7465264	25.0	24.8	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	93	926990	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	95	3914272	25.0	24.3	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	3087805	25.0	24.5	
139 Benzyl chloride	126	12.871	12.877	-0.006	98	618066	25.0	27.3	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	3805919	25.0	25.1	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	3607202	25.0	24.8	
142 p-Diethylbenzene	119	13.084	13.085	-0.001	86	3817301	25.0	24.9	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	206473	25.0	26.7	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	3141786	25.0	25.2	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	2739507	25.0	26.1	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	97	1349576	25.0	24.9	
149 Naphthalene	128	14.346	14.347	-0.001	96	4518703	25.0	27.1	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	2228217	25.0	26.4	
151 2-Methylnaphthalene	142	15.090	15.090	0.000	93	2420259	25.0	30.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00053	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added: 25.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added: 1.00	Units: uL	Run Reagent

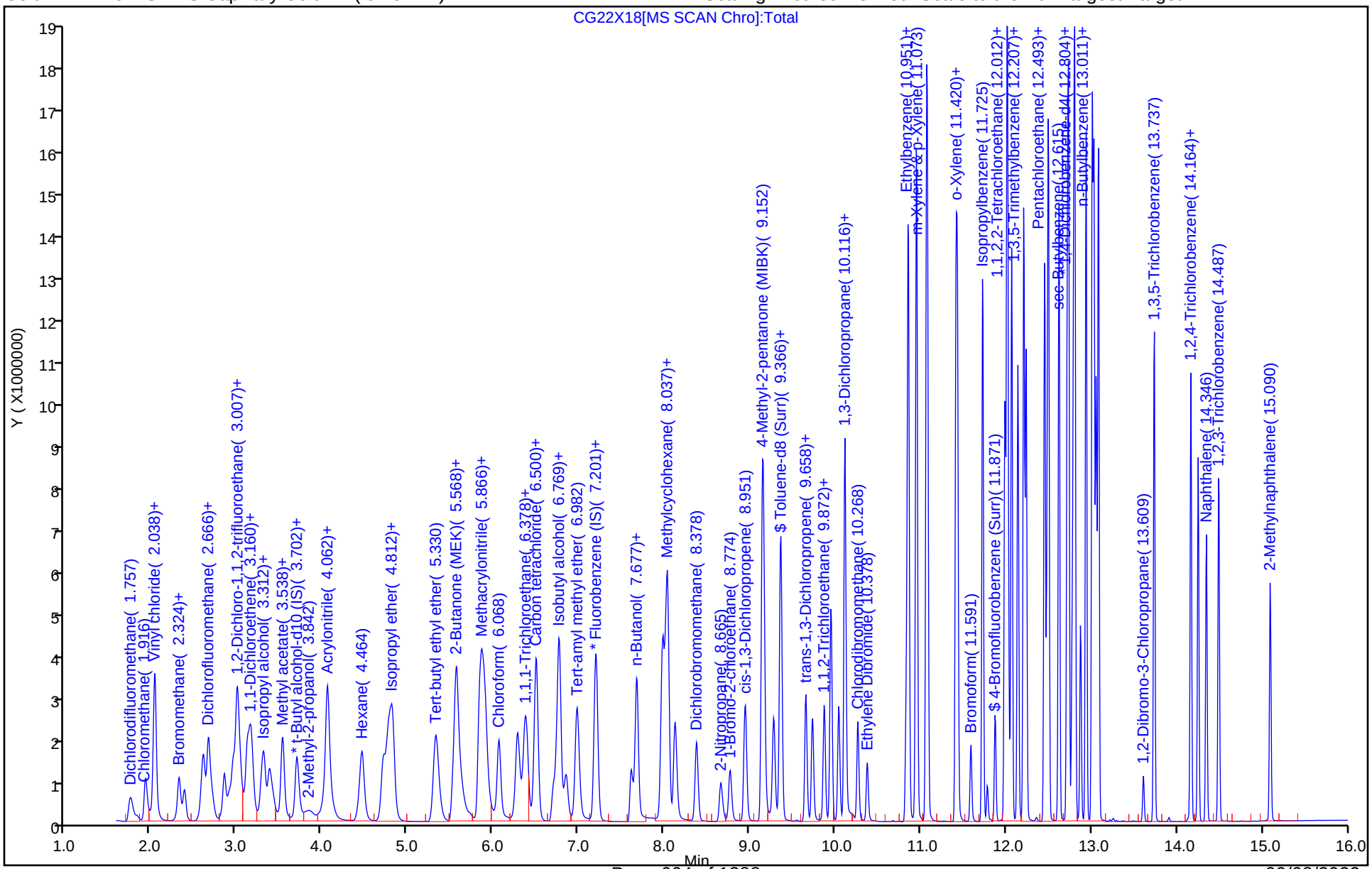
Report Date: 31-Aug-2022 08:31:56 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Injection Date:	22-Aug-2022 22:26:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std7 25			Worklist Smp#:	19
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

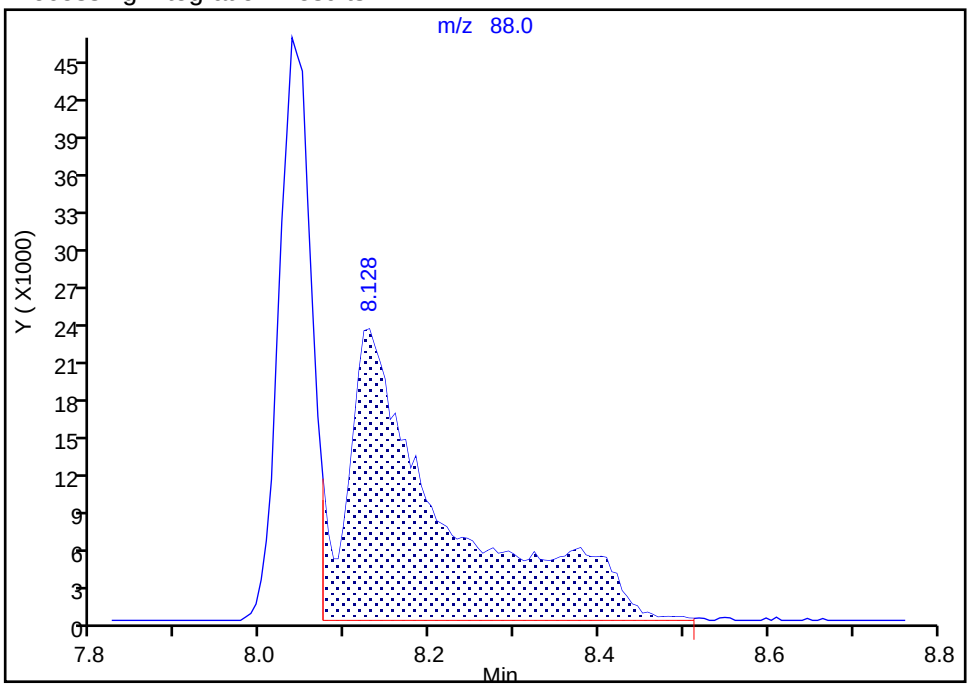
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D
Injection Date: 22-Aug-2022 22:26:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

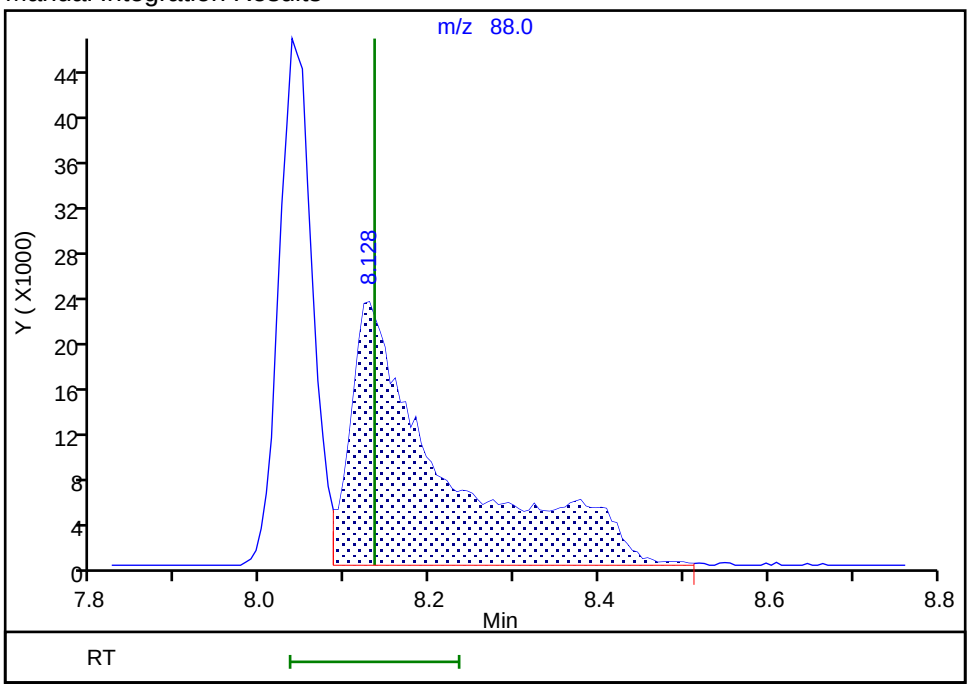
Processing Integration Results

RT: 8.13
Area: 190279
Amount: 1250.2793
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 183524
Amount: 1250.1240
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:32:37
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

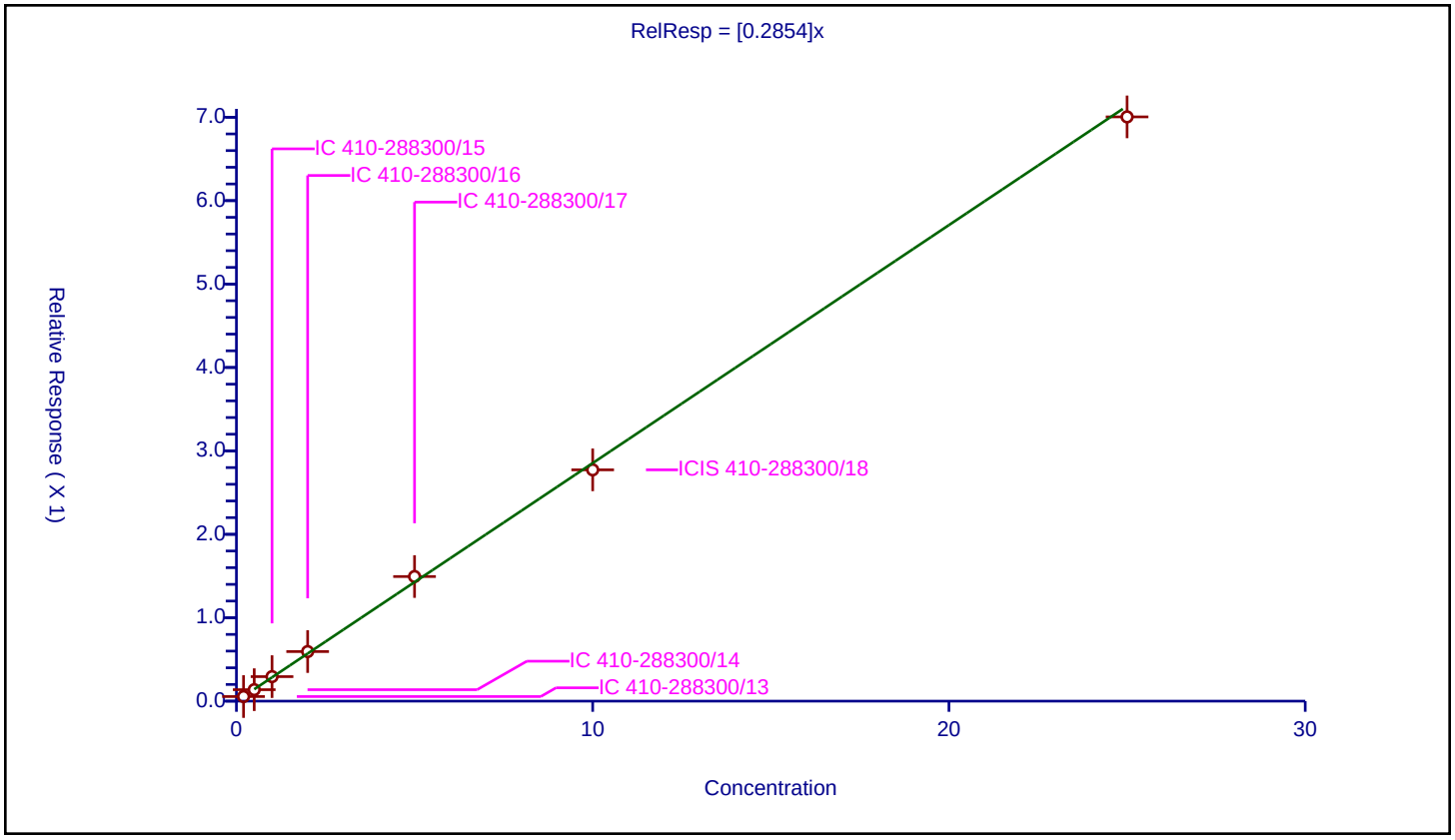
Curve Coefficients

Intercept:	0
Slope:	0.2854

Error Coefficients

Standard Error:	632000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.055036	10.0	1993587.0	0.275182	Y
2	IC 410-288300/14	0.5	0.137423	10.0	1985770.0	0.274846	Y
3	IC 410-288300/15	1.0	0.294031	10.0	1978464.0	0.294031	Y
4	IC 410-288300/16	2.0	0.594435	10.0	1976130.0	0.297217	Y
5	IC 410-288300/17	5.0	1.493859	10.0	1966718.0	0.298772	Y
6	ICIS 410-288300/18	10.0	2.773005	10.0	1988424.0	0.277301	Y
7	IC 410-288300/19	25.0	7.004156	10.0	2013656.0	0.280166	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

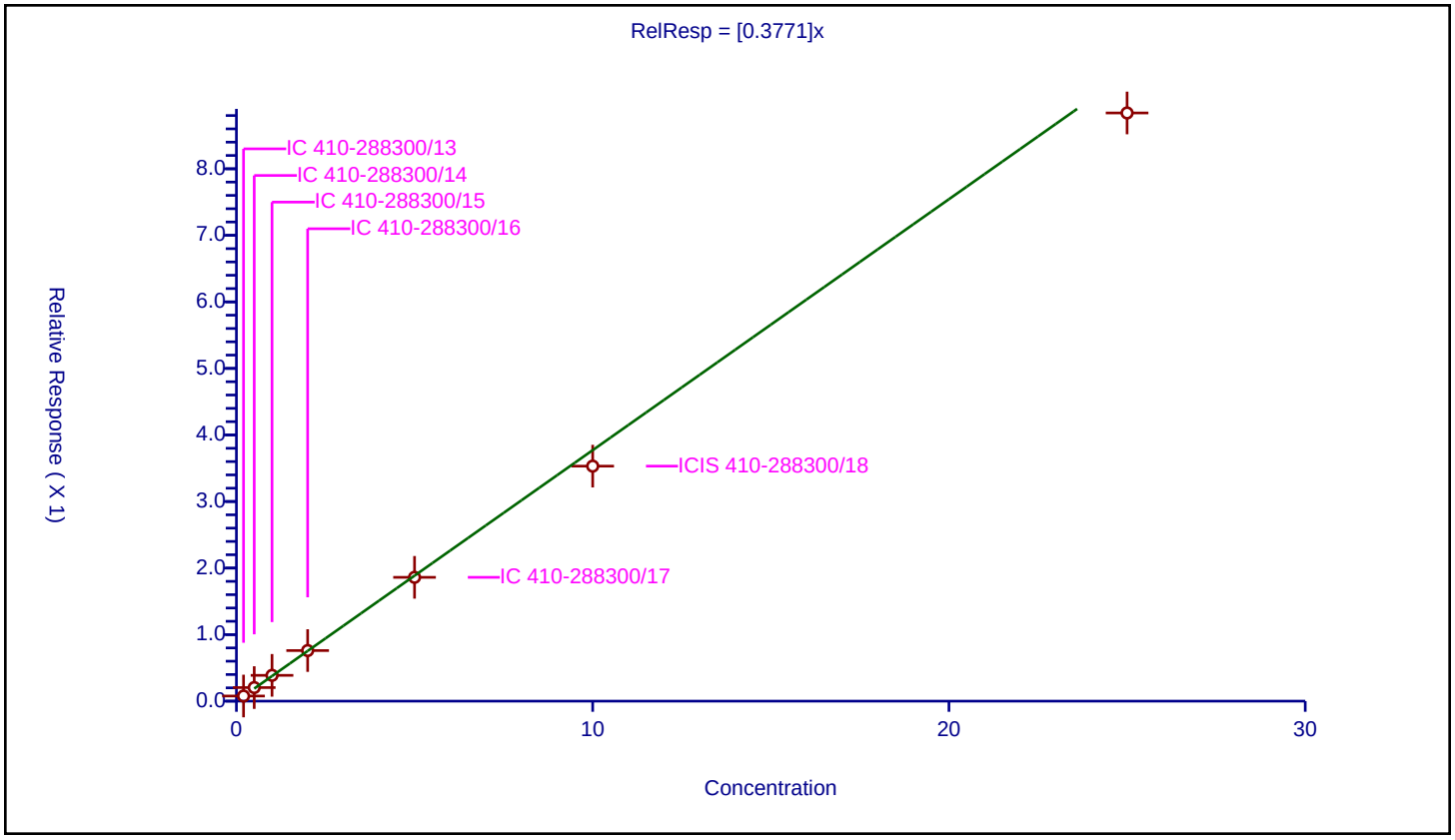
Curve Coefficients

Intercept:	0
Slope:	0.3771

Error Coefficients

Standard Error:	798000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.077092	10.0	1993587.0	0.385461	Y
2	IC 410-288300/14	0.5	0.204012	10.0	1985770.0	0.408023	Y
3	IC 410-288300/15	1.0	0.387624	10.0	1978464.0	0.387624	Y
4	IC 410-288300/16	2.0	0.760157	10.0	1976130.0	0.380079	Y
5	IC 410-288300/17	5.0	1.860562	10.0	1966718.0	0.372112	Y
6	ICIS 410-288300/18	10.0	3.53153	10.0	1988424.0	0.353153	Y
7	IC 410-288300/19	25.0	8.838744	10.0	2013656.0	0.35355	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

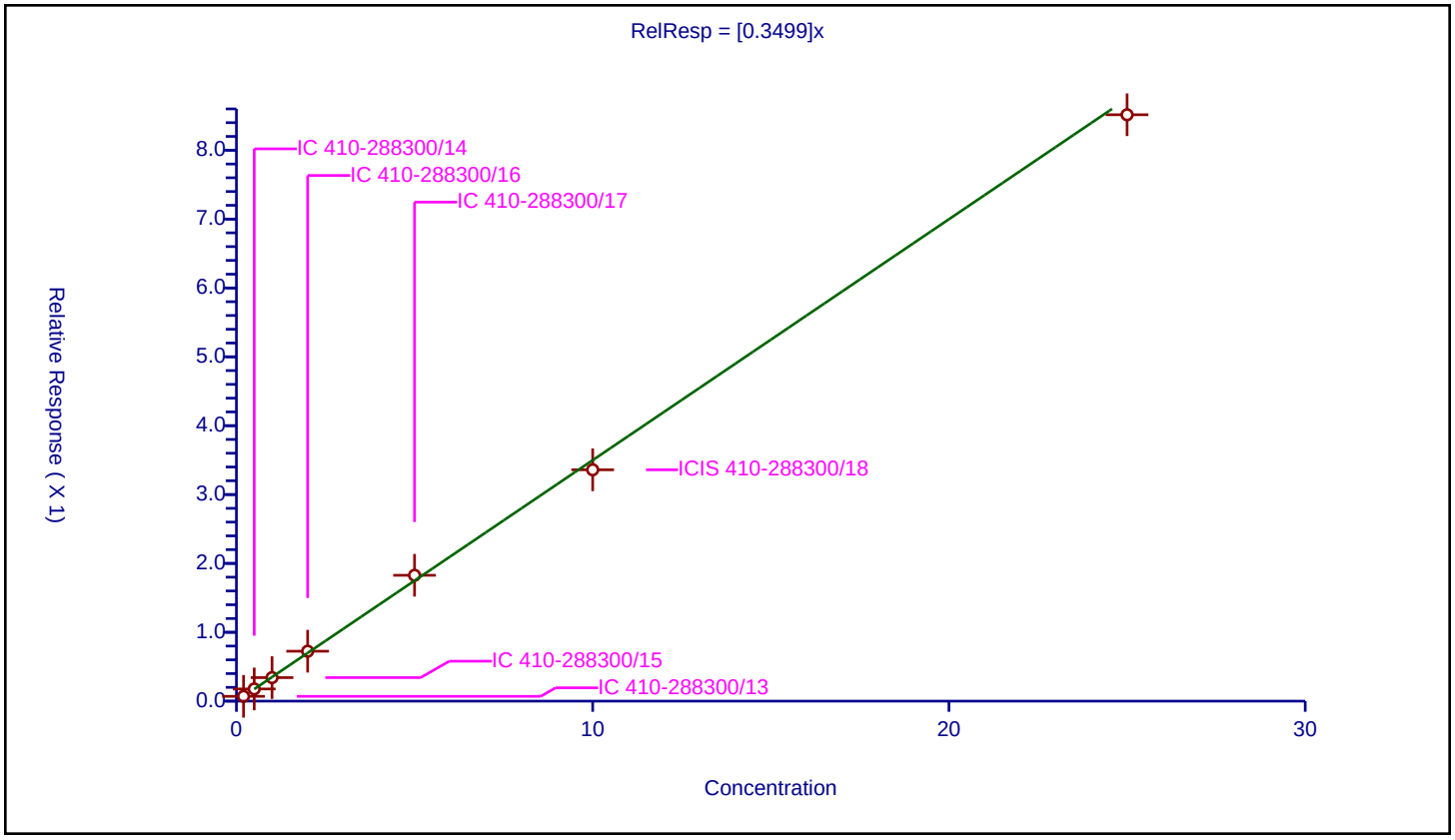
Curve Coefficients

Intercept:	0
Slope:	0.3499

Error Coefficients

Standard Error:	768000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.069809	10.0	1993587.0	0.349044	Y
2	IC 410-288300/14	0.5	0.17706	10.0	1985770.0	0.35412	Y
3	IC 410-288300/15	1.0	0.341553	10.0	1978464.0	0.341553	Y
4	IC 410-288300/16	2.0	0.724907	10.0	1976130.0	0.362453	Y
5	IC 410-288300/17	5.0	1.827552	10.0	1966718.0	0.36551	Y
6	ICIS 410-288300/18	10.0	3.35954	10.0	1988424.0	0.335954	Y
7	IC 410-288300/19	25.0	8.514885	10.0	2013656.0	0.340595	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

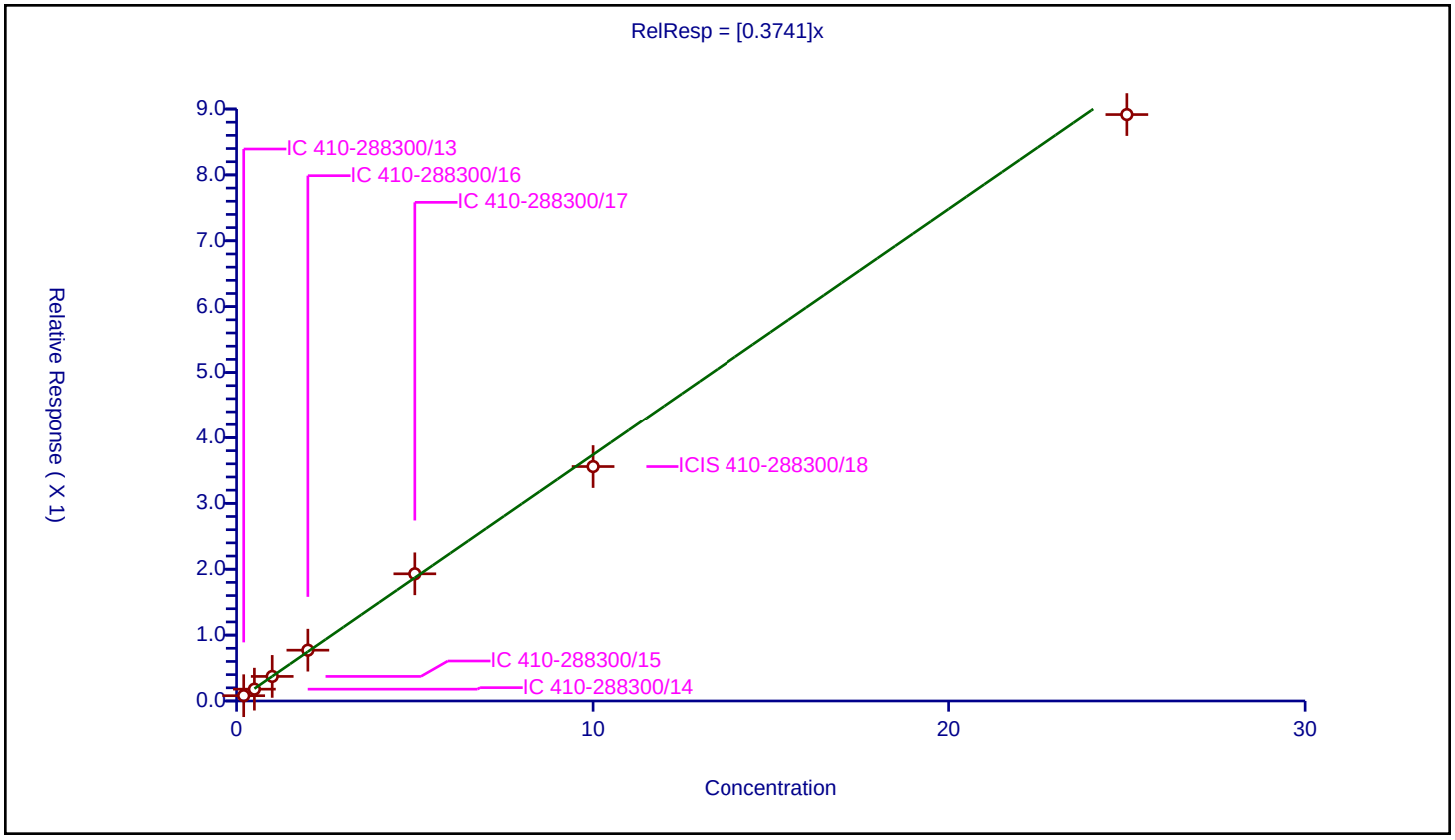
Curve Coefficients

Intercept:	0
Slope:	0.3741

Error Coefficients

Standard Error:	806000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.080453	10.0	1993587.0	0.402265	Y
2	IC 410-288300/14	0.5	0.179633	10.0	1985770.0	0.359266	Y
3	IC 410-288300/15	1.0	0.373001	10.0	1978464.0	0.373001	Y
4	IC 410-288300/16	2.0	0.771149	10.0	1976130.0	0.385574	Y
5	IC 410-288300/17	5.0	1.930338	10.0	1966718.0	0.386068	Y
6	ICIS 410-288300/18	10.0	3.558803	10.0	1988424.0	0.35588	Y
7	IC 410-288300/19	25.0	8.915992	10.0	2013656.0	0.35664	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

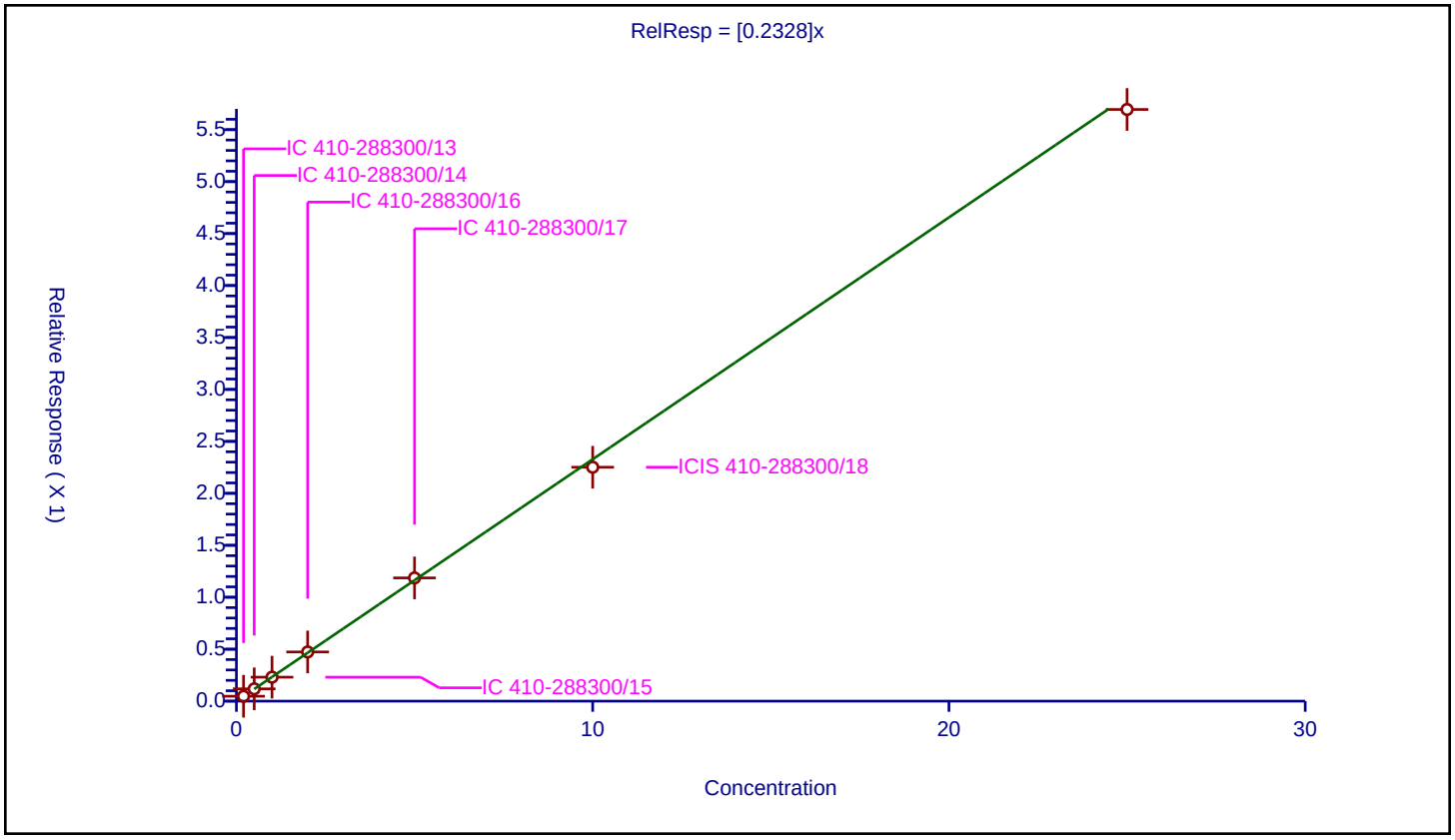
Curve Coefficients

Intercept:	0
Slope:	0.2328

Error Coefficients

Standard Error:	513000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.047036	10.0	1993587.0	0.235179	Y
2	IC 410-288300/14	0.5	0.118397	10.0	1985770.0	0.236795	Y
3	IC 410-288300/15	1.0	0.230694	10.0	1978464.0	0.230694	Y
4	IC 410-288300/16	2.0	0.473339	10.0	1976130.0	0.23667	Y
5	IC 410-288300/17	5.0	1.186017	10.0	1966718.0	0.237203	Y
6	ICIS 410-288300/18	10.0	2.25126	10.0	1988424.0	0.225126	Y
7	IC 410-288300/19	25.0	5.69427	10.0	2013656.0	0.227771	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

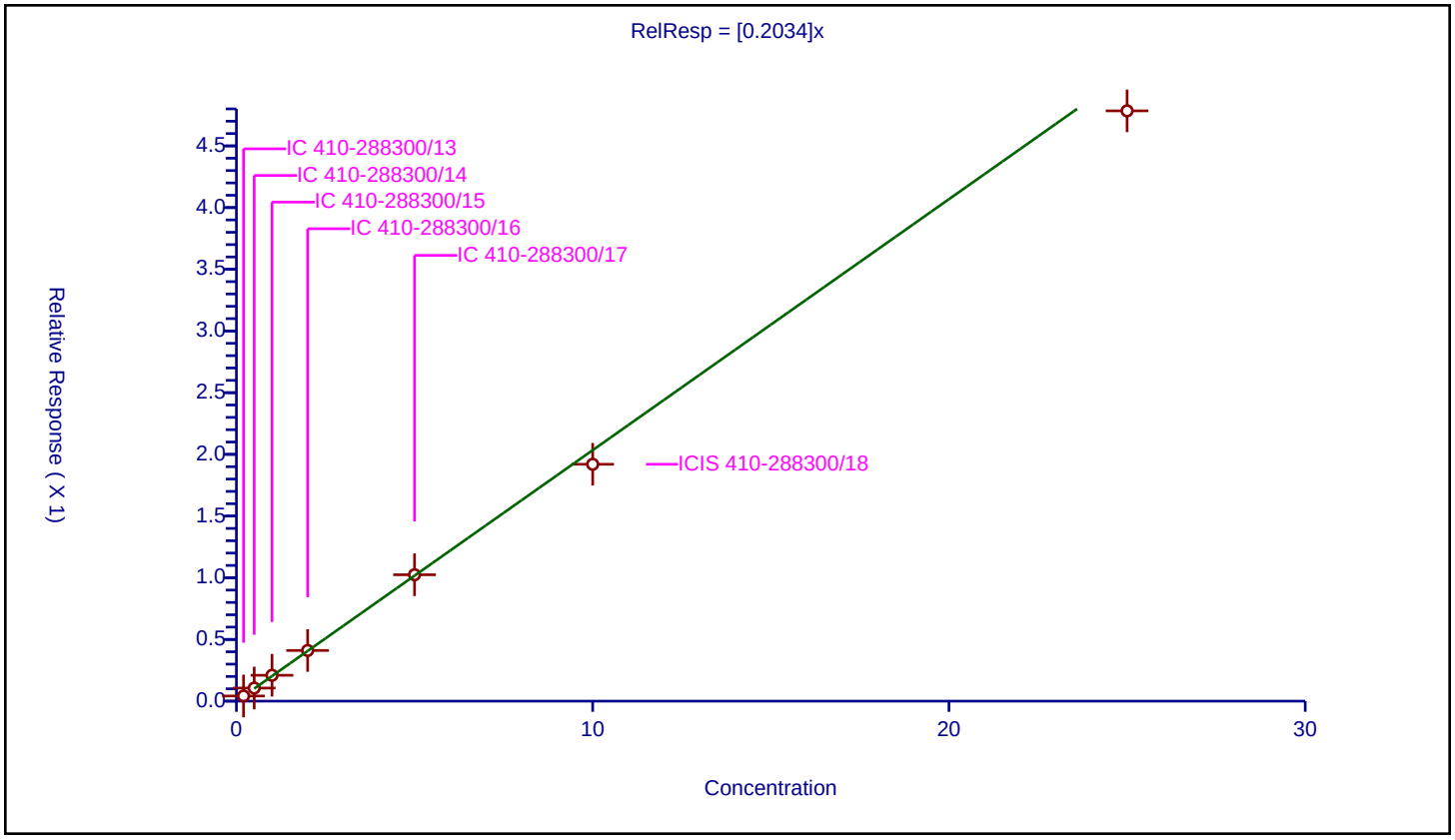
Curve Coefficients

Intercept:	0
Slope:	0.2034

Error Coefficients

Standard Error:	433000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.041679	10.0	1993587.0	0.208393	Y
2	IC 410-288300/14	0.5	0.10611	10.0	1985770.0	0.21222	Y
3	IC 410-288300/15	1.0	0.209678	10.0	1978464.0	0.209678	Y
4	IC 410-288300/16	2.0	0.410722	10.0	1976130.0	0.205361	Y
5	IC 410-288300/17	5.0	1.024412	10.0	1966718.0	0.204882	Y
6	ICIS 410-288300/18	10.0	1.919676	10.0	1988424.0	0.191968	Y
7	IC 410-288300/19	25.0	4.78392	10.0	2013656.0	0.191357	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

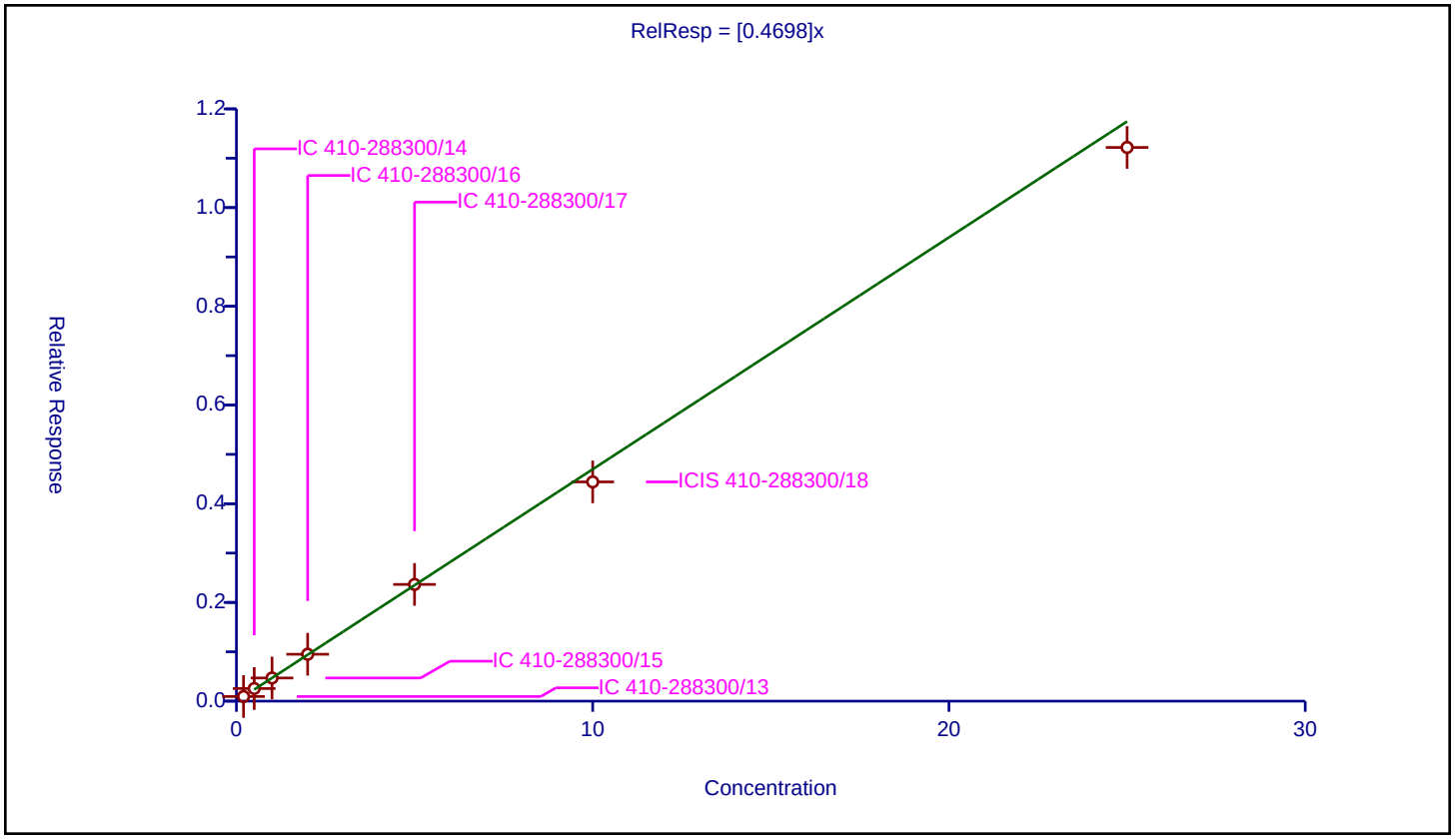
Curve Coefficients

Intercept:	0
Slope:	0.4698

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.093399	10.0	1993587.0	0.466997	Y
2	IC 410-288300/14	0.5	0.255714	10.0	1985770.0	0.511429	Y
3	IC 410-288300/15	1.0	0.469248	10.0	1978464.0	0.469248	Y
4	IC 410-288300/16	2.0	0.950079	10.0	1976130.0	0.47504	Y
5	IC 410-288300/17	5.0	2.364864	10.0	1966718.0	0.472973	Y
6	ICIS 410-288300/18	10.0	4.442222	10.0	1988424.0	0.444222	Y
7	IC 410-288300/19	25.0	11.218396	10.0	2013656.0	0.448736	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

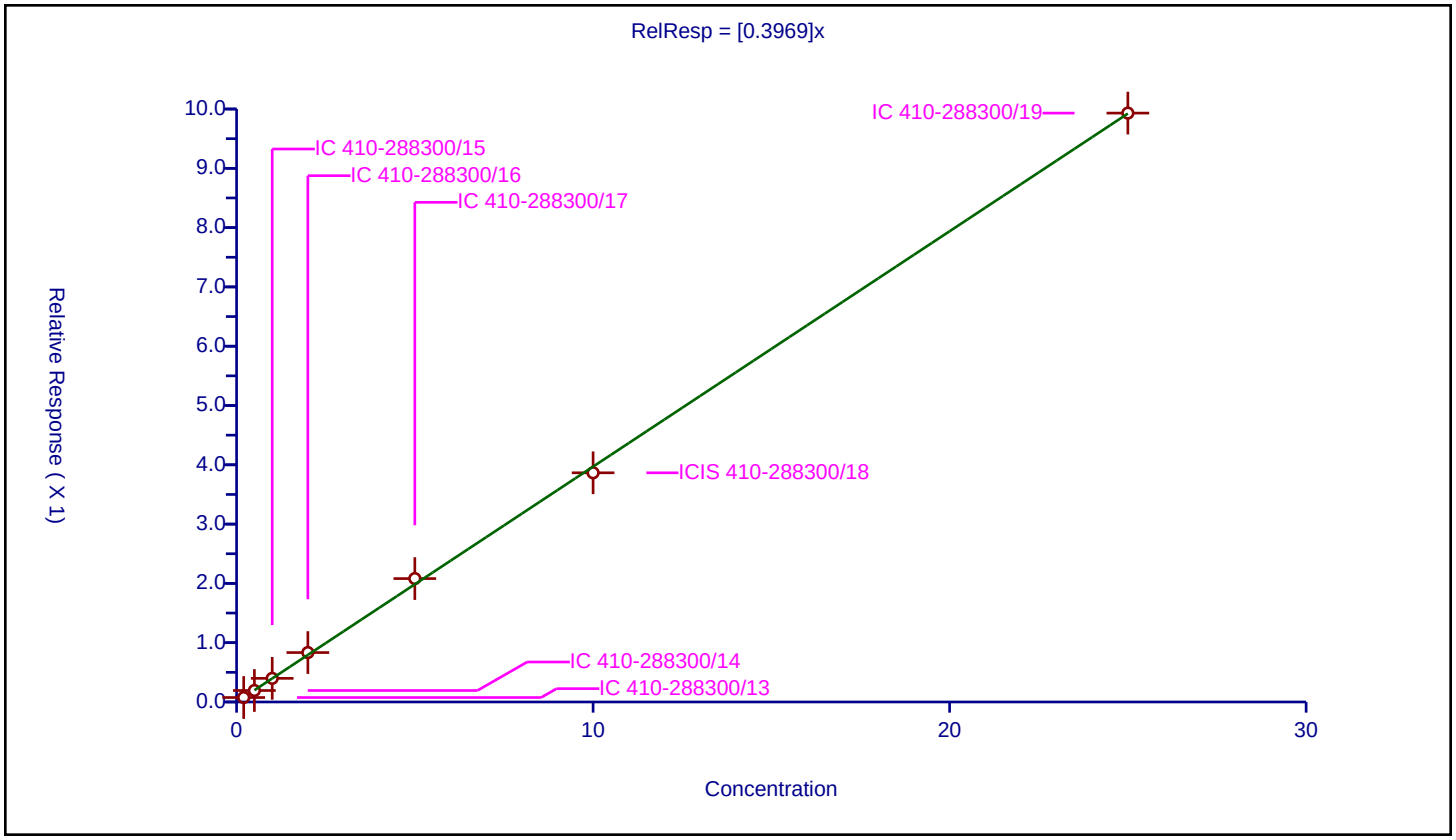
Curve Coefficients

Intercept:	0
Slope:	0.3969

Error Coefficients

Standard Error:	894000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.075136	10.0	1993587.0	0.37568	Y
2	IC 410-288300/14	0.5	0.193668	10.0	1985770.0	0.387336	Y
3	IC 410-288300/15	1.0	0.398739	10.0	1978464.0	0.398739	Y
4	IC 410-288300/16	2.0	0.833528	10.0	1976130.0	0.416764	Y
5	IC 410-288300/17	5.0	2.081061	10.0	1966718.0	0.416212	Y
6	ICIS 410-288300/18	10.0	3.865217	10.0	1988424.0	0.386522	Y
7	IC 410-288300/19	25.0	9.931289	10.0	2013656.0	0.397252	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

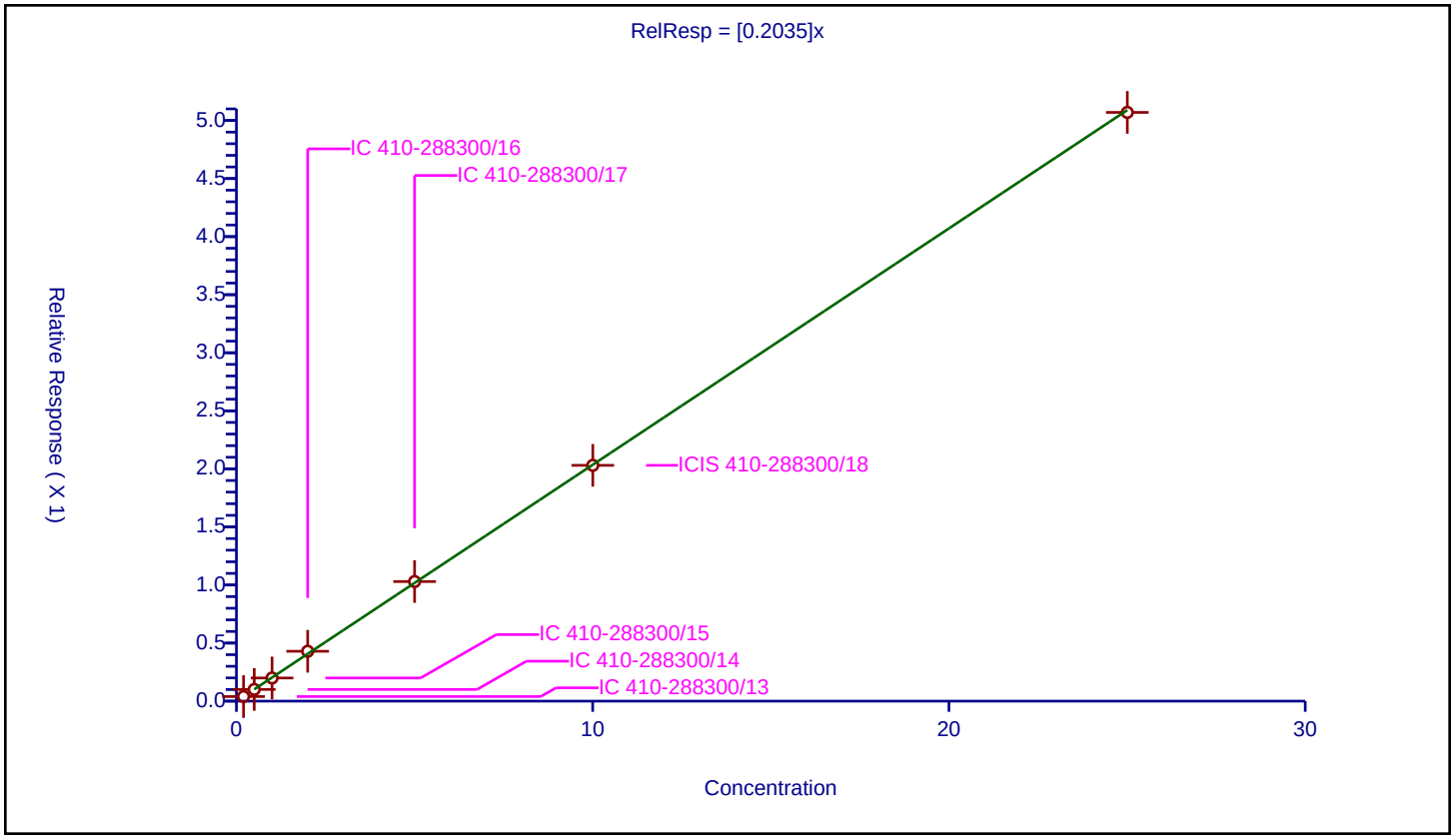
Curve Coefficients

Intercept:	0
Slope:	0.2035

Error Coefficients

Standard Error:	457000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.200057	0.039552	10.0	1993587.0	0.197703	Y
2	IC 410-288300/14	0.500143	0.100717	10.0	1985770.0	0.201376	Y
3	IC 410-288300/15	1.000286	0.199387	10.0	1978464.0	0.19933	Y
4	IC 410-288300/16	2.000572	0.429491	10.0	1976130.0	0.214684	Y
5	IC 410-288300/17	5.00143	1.02997	10.0	1966718.0	0.205935	Y
6	ICIS 410-288300/18	10.00286	2.030492	10.0	1988424.0	0.202991	Y
7	IC 410-288300/19	25.00715	5.069699	10.0	2013656.0	0.20273	Y



Calibration / 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

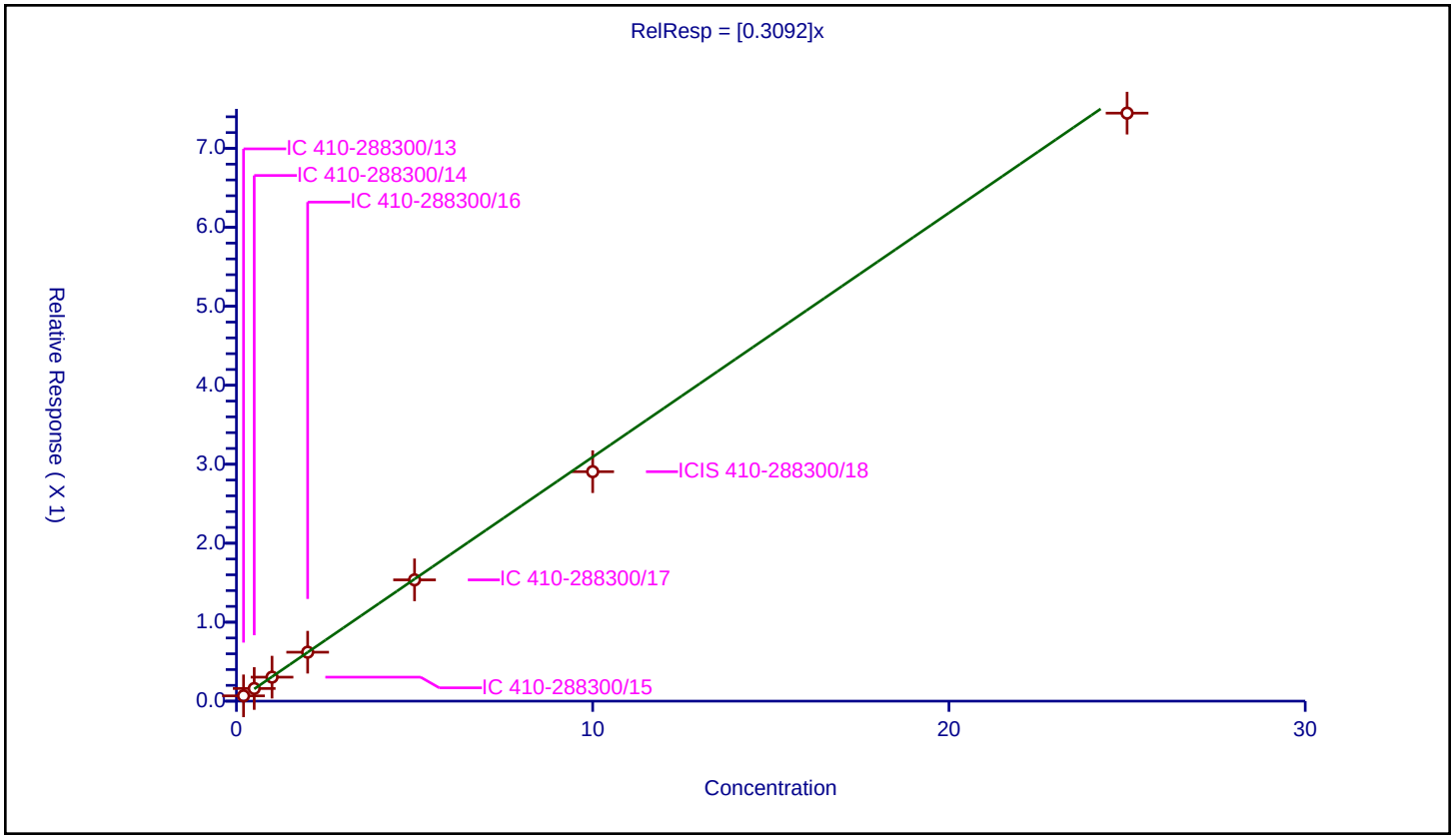
Curve Coefficients

Intercept:	0
Slope:	0.3092

Error Coefficients

Standard Error:	670000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.06701	10.0	1993587.0	0.335049	Y
2	IC 410-288300/14	0.5	0.159958	10.0	1985770.0	0.319916	Y
3	IC 410-288300/15	1.0	0.303741	10.0	1978464.0	0.303741	Y
4	IC 410-288300/16	2.0	0.619828	10.0	1976130.0	0.309914	Y
5	IC 410-288300/17	5.0	1.53569	10.0	1966718.0	0.307138	Y
6	ICIS 410-288300/18	10.0	2.905779	10.0	1988424.0	0.290578	Y
7	IC 410-288300/19	25.0	7.446267	10.0	2013656.0	0.297851	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

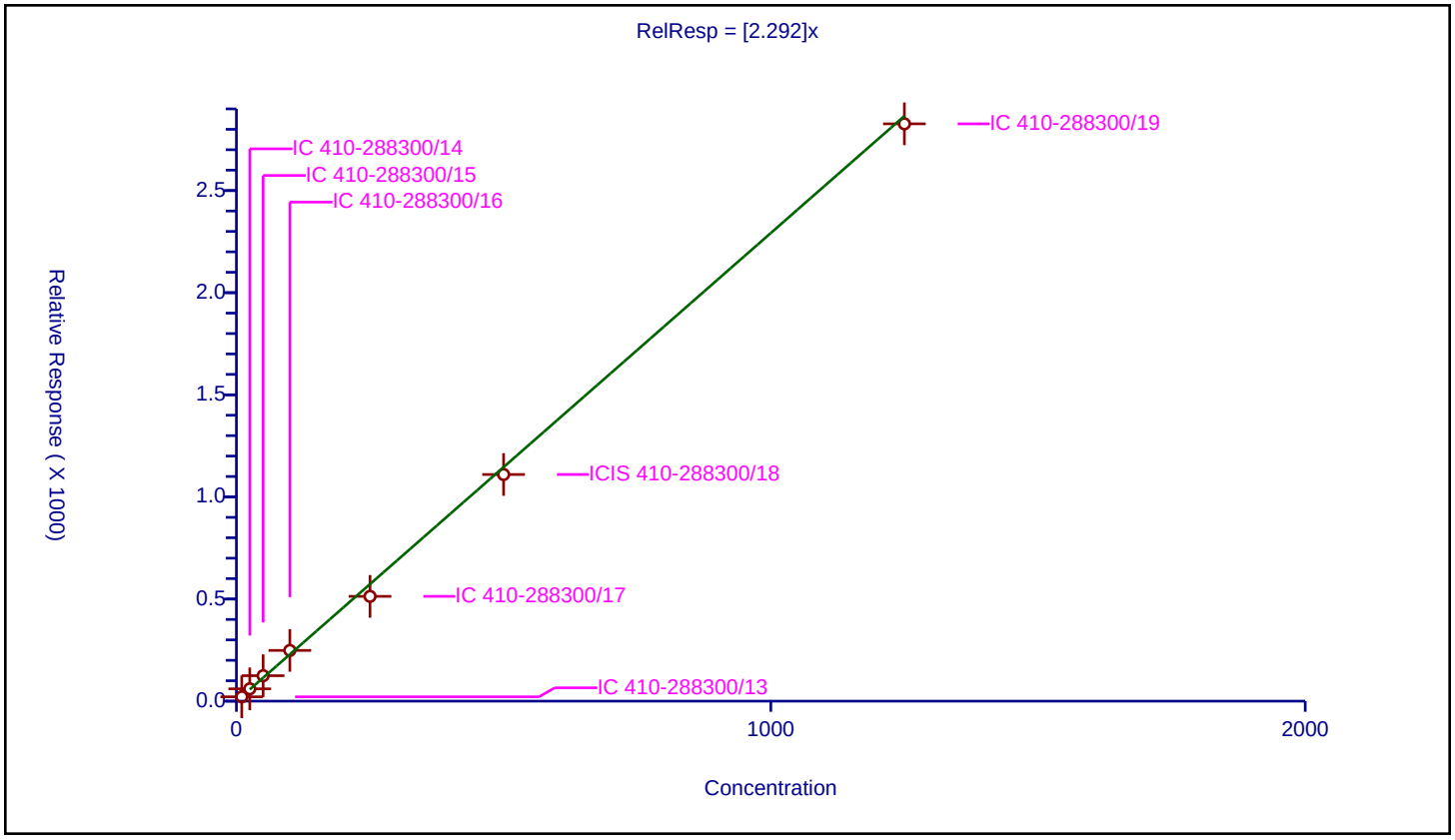
Curve Coefficients

Intercept:	0
Slope:	2.292

Error Coefficients

Standard Error:	3060000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	9.999752	21.220164	50.0	136580.0	2.122069	Y
2	IC 410-288300/14	24.999381	60.363212	50.0	132044.0	2.414588	Y
3	IC 410-288300/15	49.998762	124.549729	50.0	113154.0	2.491056	Y
4	IC 410-288300/16	99.997523	248.402971	50.0	117656.0	2.484091	Y
5	IC 410-288300/17	249.993808	513.079892	50.0	131878.0	2.05237	Y
6	ICIS 410-288300/18	499.987617	1109.7408	50.0	129707.0	2.219537	Y
7	IC 410-288300/19	1249.969042	2826.779452	50.0	119756.0	2.26148	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

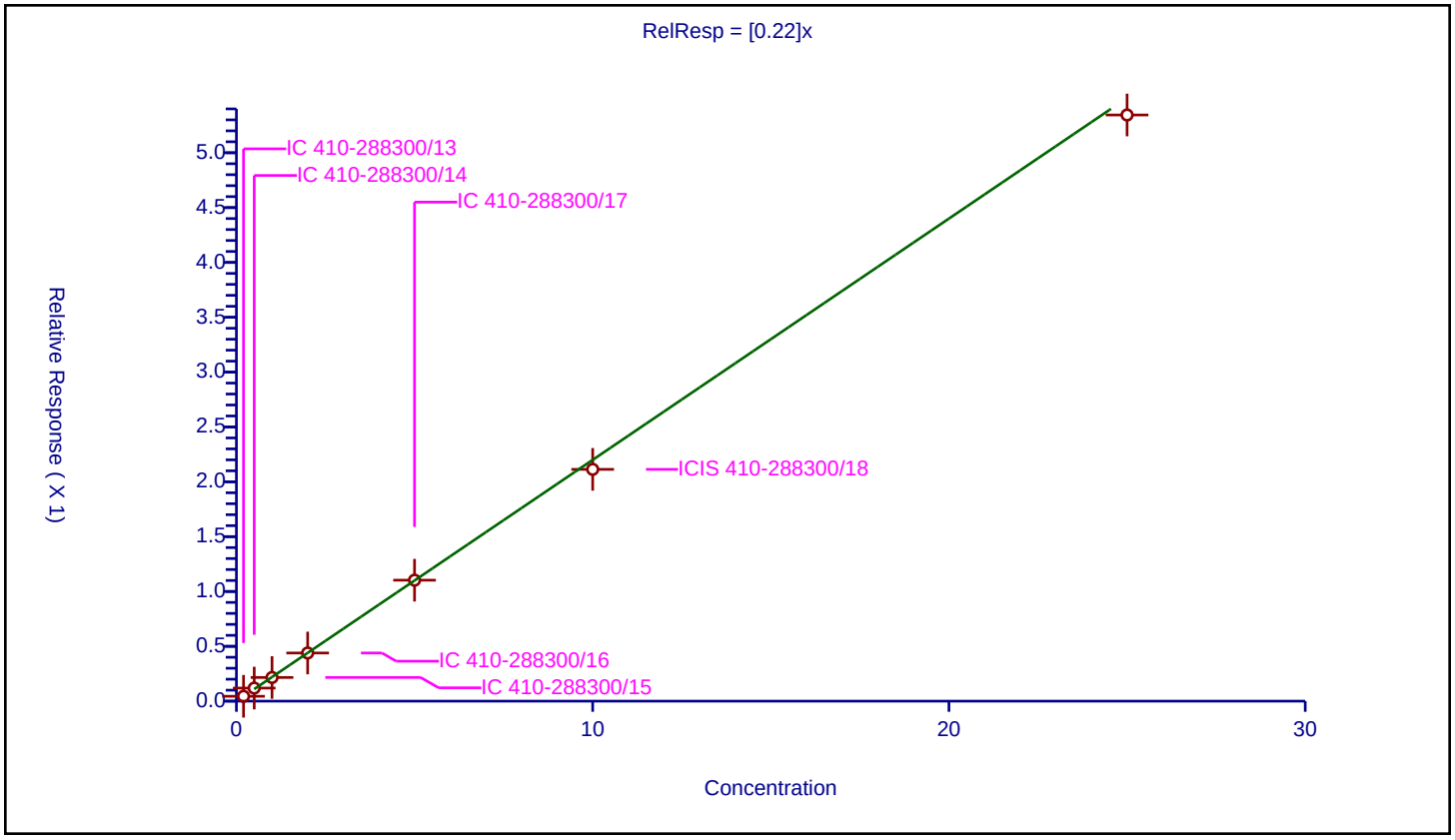
Curve Coefficients

Intercept:	0
Slope:	0.22

Error Coefficients

Standard Error:	482000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.044202	10.0	1993587.0	0.221009	Y
2	IC 410-288300/14	0.5	0.119007	10.0	1985770.0	0.238013	Y
3	IC 410-288300/15	1.0	0.215672	10.0	1978464.0	0.215672	Y
4	IC 410-288300/16	2.0	0.439015	10.0	1976130.0	0.219507	Y
5	IC 410-288300/17	5.0	1.102898	10.0	1966718.0	0.22058	Y
6	ICIS 410-288300/18	10.0	2.113302	10.0	1988424.0	0.21133	Y
7	IC 410-288300/19	25.0	5.344488	10.0	2013656.0	0.21378	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

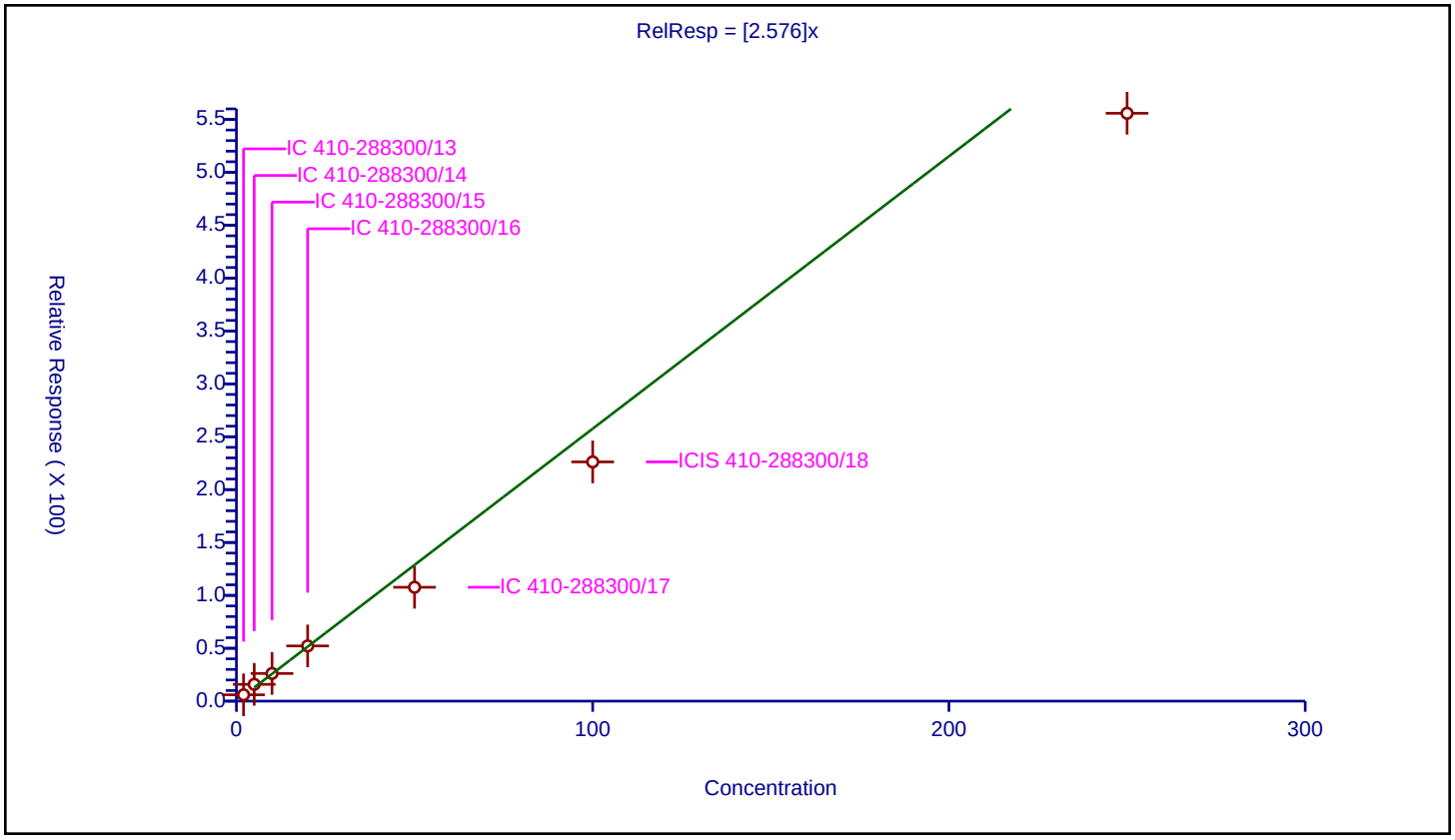
Curve Coefficients

Intercept:	0
Slope:	2.576

Error Coefficients

Standard Error:	608000
Relative Standard Error:	15.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	2.0	5.977083	50.0	136580.0	2.988542	Y
2	IC 410-288300/14	5.0	15.887507	50.0	132044.0	3.177501	Y
3	IC 410-288300/15	10.0	26.154621	50.0	113154.0	2.615462	Y
4	IC 410-288300/16	20.0	52.202183	50.0	117656.0	2.610109	Y
5	IC 410-288300/17	50.0	107.679446	50.0	131878.0	2.153589	Y
6	ICIS 410-288300/18	100.0	226.217166	50.0	129707.0	2.262172	Y
7	IC 410-288300/19	250.0	555.869852	50.0	119756.0	2.223479	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

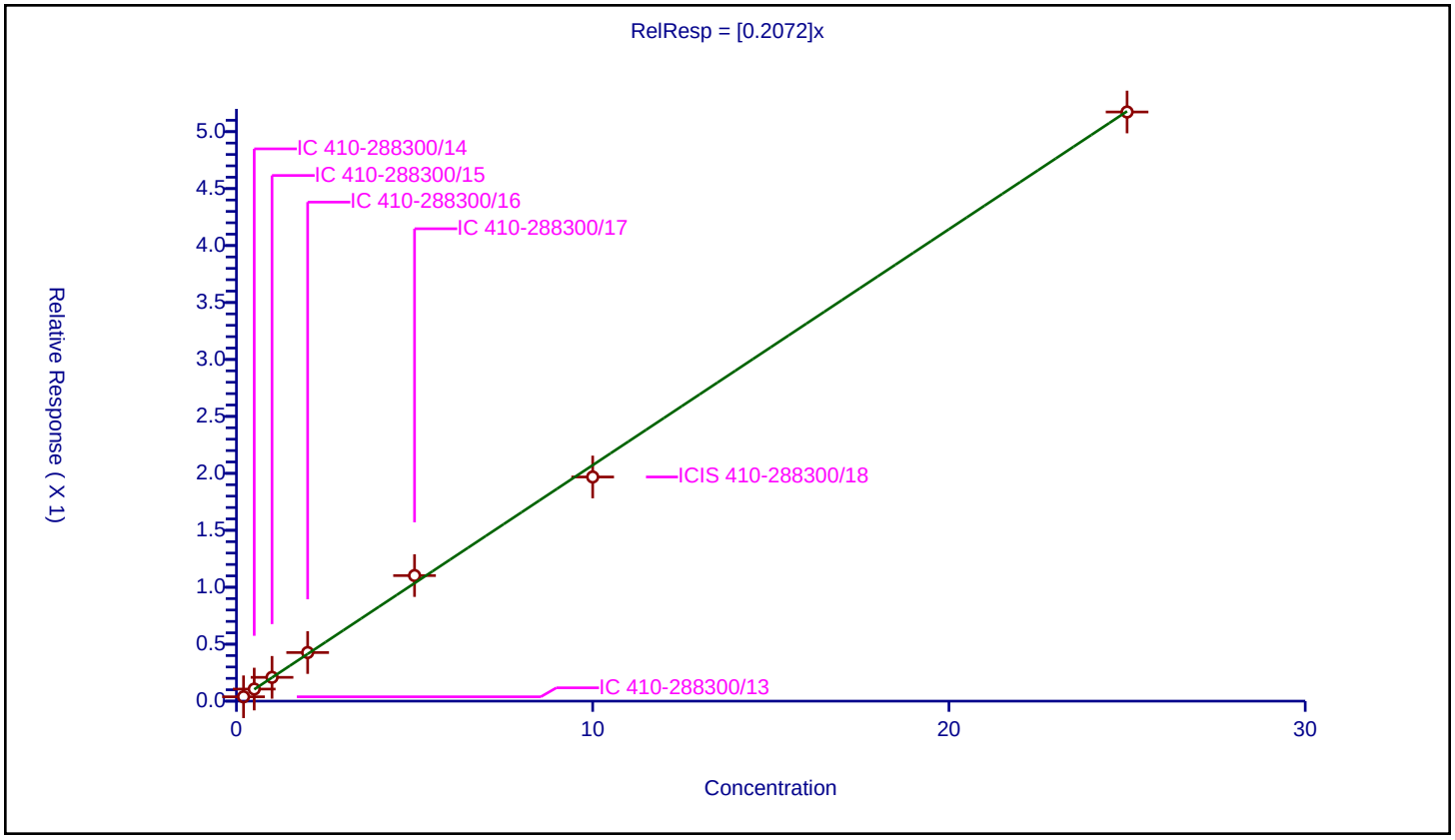
Curve Coefficients

Intercept:	0
Slope:	0.2072

Error Coefficients

Standard Error:	464000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.038313	10.0	1993587.0	0.191564	Y
2	IC 410-288300/14	0.5	0.10605	10.0	1985770.0	0.212099	Y
3	IC 410-288300/15	1.0	0.20899	10.0	1978464.0	0.20899	Y
4	IC 410-288300/16	2.0	0.426576	10.0	1976130.0	0.213288	Y
5	IC 410-288300/17	5.0	1.102512	10.0	1966718.0	0.220502	Y
6	ICIS 410-288300/18	10.0	1.968298	10.0	1988424.0	0.19683	Y
7	IC 410-288300/19	25.0	5.17279	10.0	2013656.0	0.206912	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

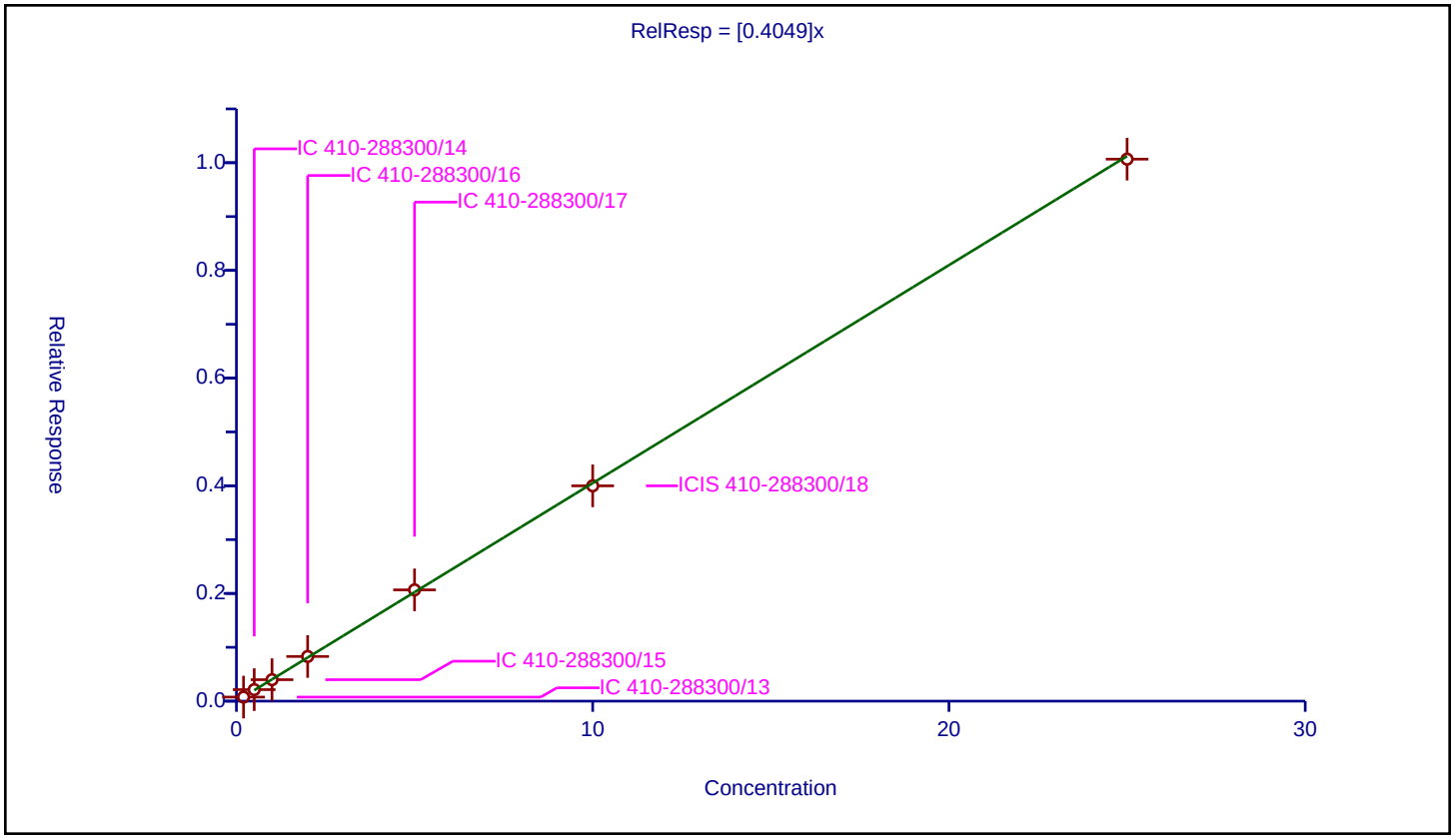
Curve Coefficients

Intercept:	0
Slope:	0.4049

Error Coefficients

Standard Error:	908000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.075477	10.0	1993587.0	0.377385	Y
2	IC 410-288300/14	0.5	0.213711	10.0	1985770.0	0.427421	Y
3	IC 410-288300/15	1.0	0.398531	10.0	1978464.0	0.398531	Y
4	IC 410-288300/16	2.0	0.829829	10.0	1976130.0	0.414915	Y
5	IC 410-288300/17	5.0	2.066702	10.0	1966718.0	0.41334	Y
6	ICIS 410-288300/18	10.0	3.998549	10.0	1988424.0	0.399855	Y
7	IC 410-288300/19	25.0	10.066695	10.0	2013656.0	0.402668	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

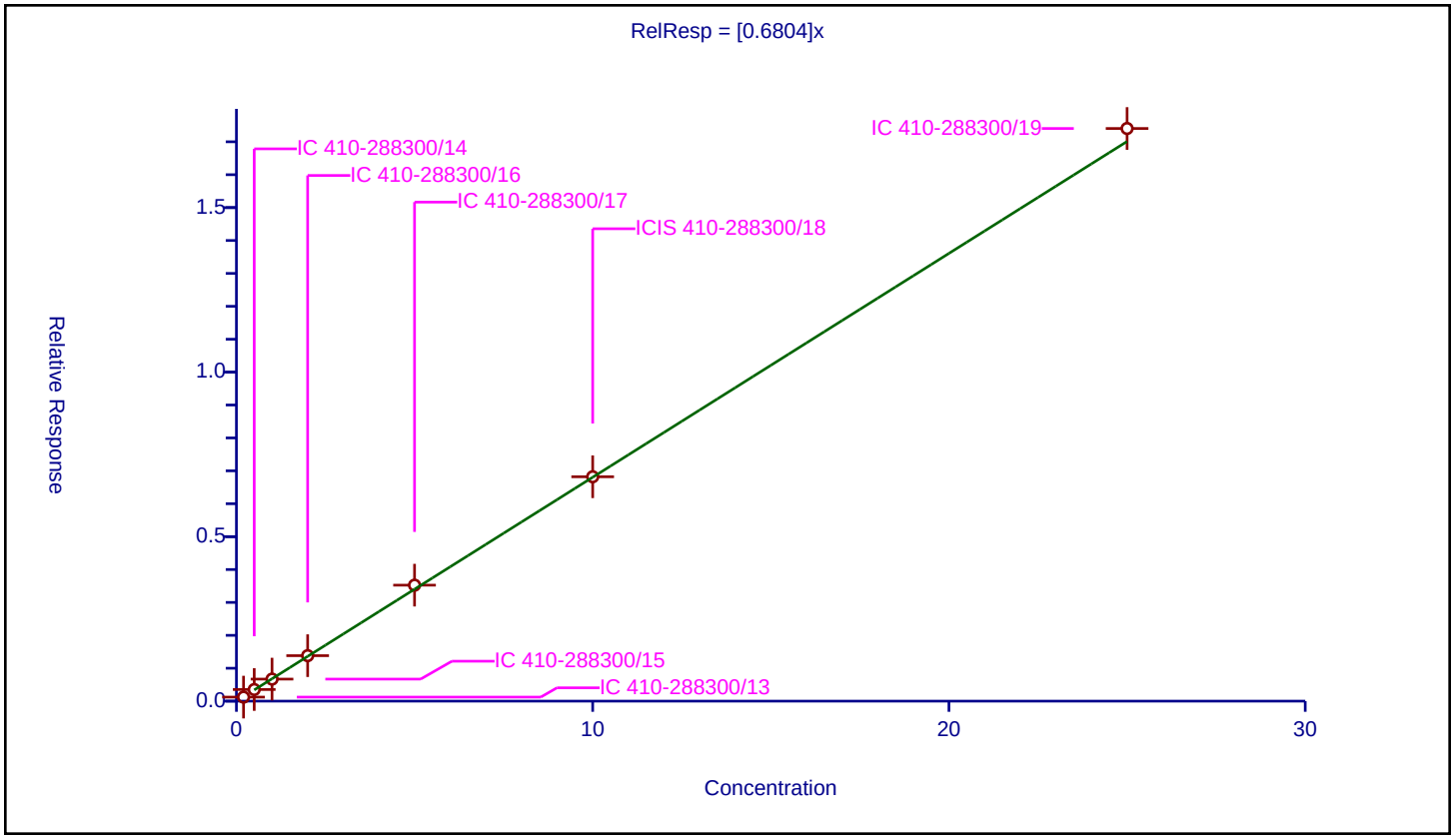
Curve Coefficients

Intercept:	0
Slope:	0.6804

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.122588	10.0	1993587.0	0.61294	Y
2	IC 410-288300/14	0.5	0.352997	10.0	1985770.0	0.705993	Y
3	IC 410-288300/15	1.0	0.669706	10.0	1978464.0	0.669706	Y
4	IC 410-288300/16	2.0	1.382186	10.0	1976130.0	0.691093	Y
5	IC 410-288300/17	5.0	3.524994	10.0	1966718.0	0.704999	Y
6	ICIS 410-288300/18	10.0	6.819677	10.0	1988424.0	0.681968	Y
7	IC 410-288300/19	25.0	17.404298	10.0	2013656.0	0.696172	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

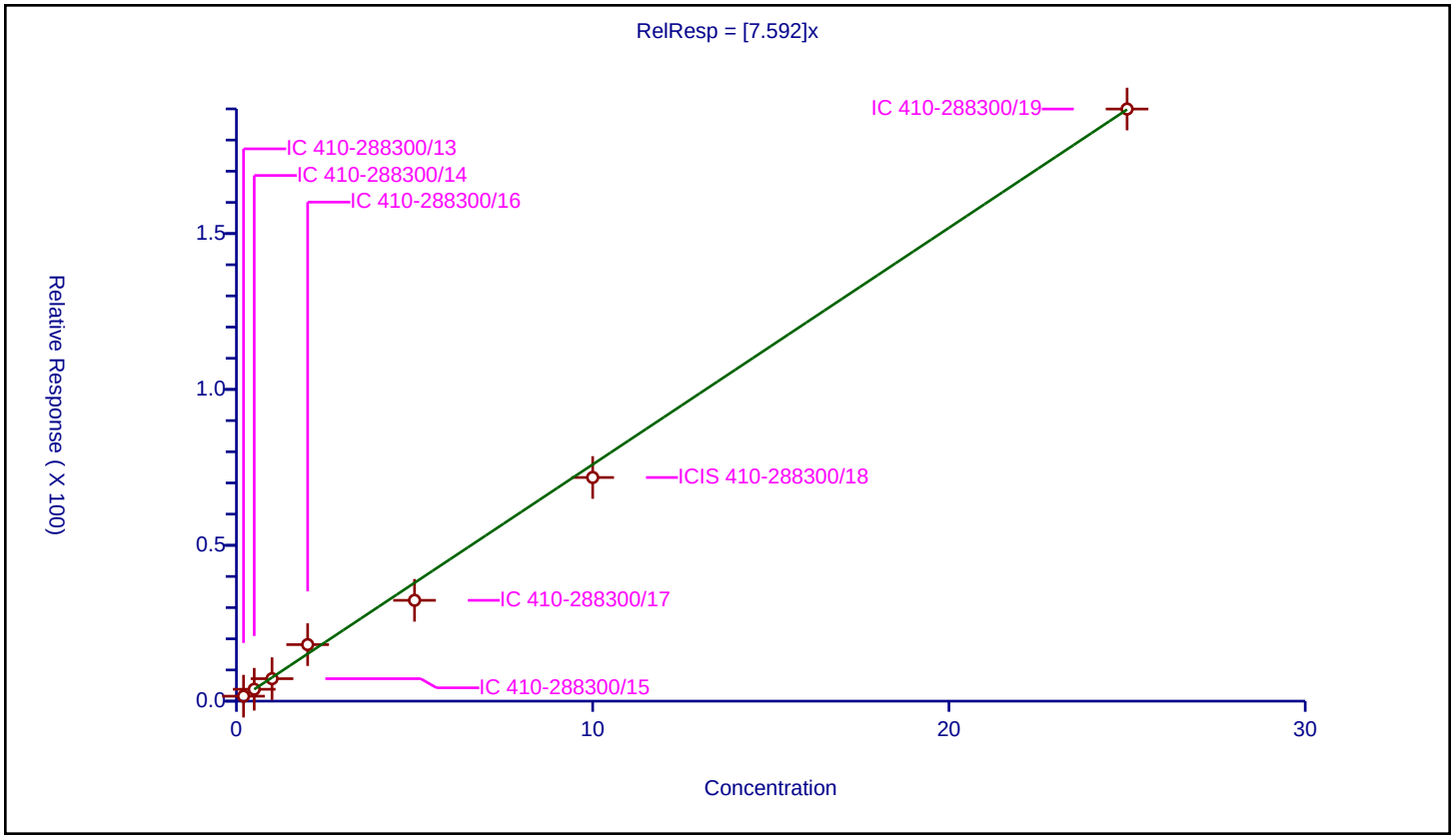
Curve Coefficients

Intercept:	0
Slope:	7.592

Error Coefficients

Standard Error:	205000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	1.597598	50.0	136580.0	7.987992	Y
2	IC 410-288300/14	0.5	3.818045	50.0	132044.0	7.636091	Y
3	IC 410-288300/15	1.0	7.210085	50.0	113154.0	7.210085	Y
4	IC 410-288300/16	2.0	18.136347	50.0	117656.0	9.068173	Y
5	IC 410-288300/17	5.0	32.344667	50.0	131878.0	6.468933	Y
6	ICIS 410-288300/18	10.0	71.755572	50.0	129707.0	7.175557	Y
7	IC 410-288300/19	25.0	189.961255	50.0	119756.0	7.59845	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

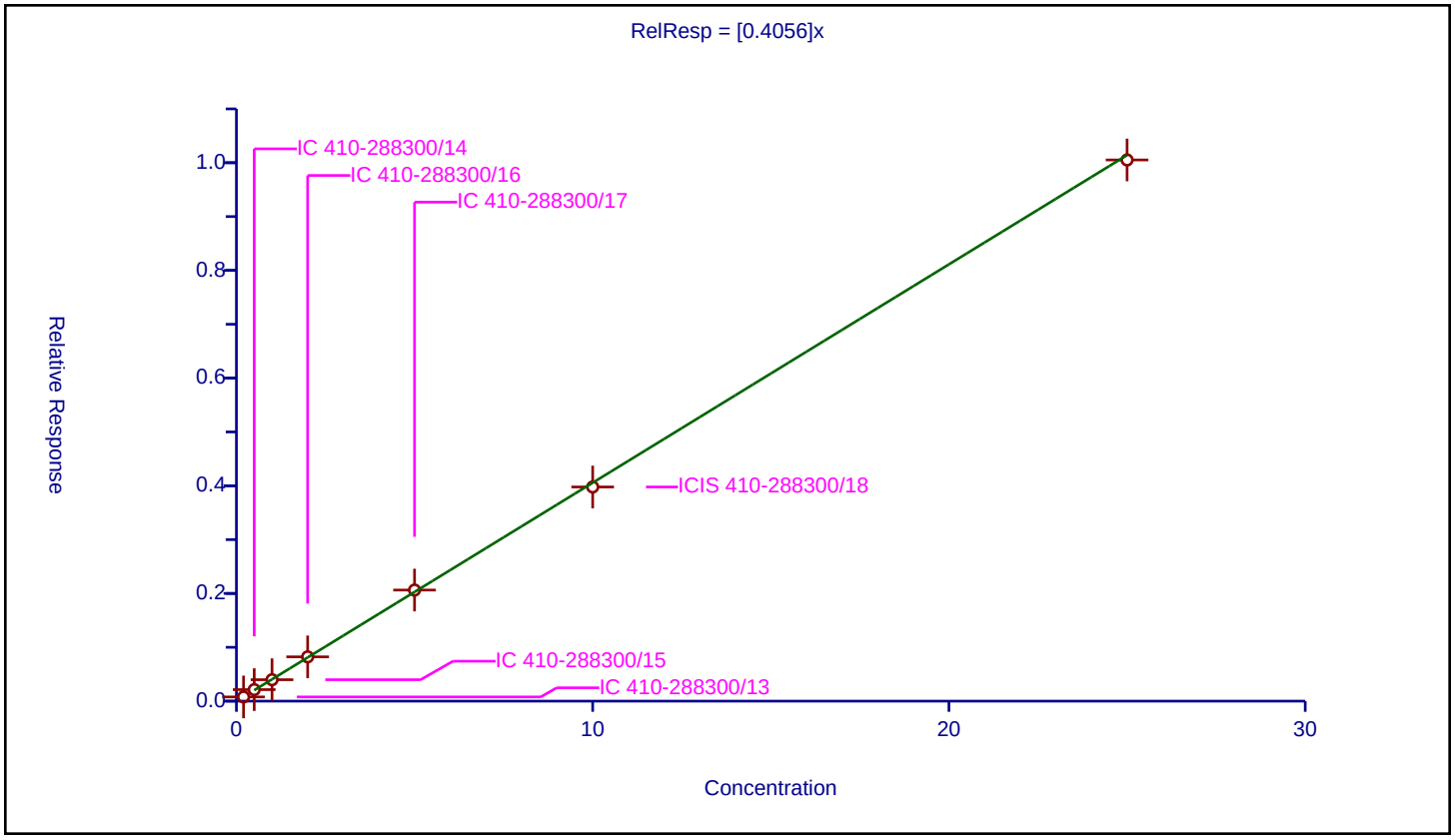
Curve Coefficients

Intercept:	0
Slope:	0.4056

Error Coefficients

Standard Error:	906000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.07808	10.0	1993587.0	0.390402	Y
2	IC 410-288300/14	0.5	0.213796	10.0	1985770.0	0.427592	Y
3	IC 410-288300/15	1.0	0.397758	10.0	1978464.0	0.397758	Y
4	IC 410-288300/16	2.0	0.822481	10.0	1976130.0	0.411241	Y
5	IC 410-288300/17	5.0	2.062914	10.0	1966718.0	0.412583	Y
6	ICIS 410-288300/18	10.0	3.977708	10.0	1988424.0	0.397771	Y
7	IC 410-288300/19	25.0	10.051791	10.0	2013656.0	0.402072	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

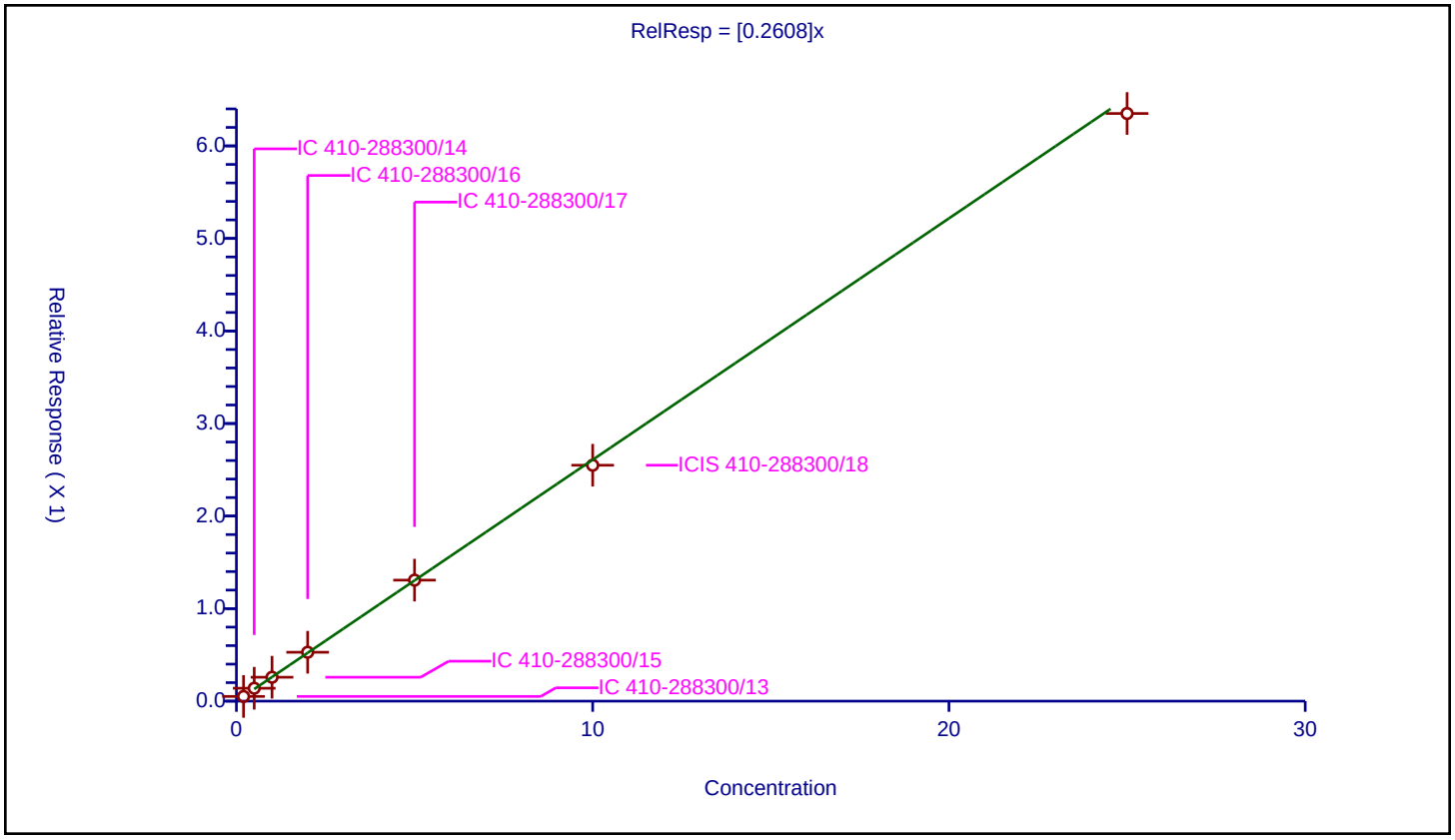
Curve Coefficients

Intercept:	0
Slope:	0.2608

Error Coefficients

Standard Error:	573000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.050888	10.0	1993587.0	0.254441	Y
2	IC 410-288300/14	0.5	0.139321	10.0	1985770.0	0.278643	Y
3	IC 410-288300/15	1.0	0.25821	10.0	1978464.0	0.25821	Y
4	IC 410-288300/16	2.0	0.528148	10.0	1976130.0	0.264074	Y
5	IC 410-288300/17	5.0	1.307757	10.0	1966718.0	0.261551	Y
6	ICIS 410-288300/18	10.0	2.54921	10.0	1988424.0	0.254921	Y
7	IC 410-288300/19	25.0	6.350181	10.0	2013656.0	0.254007	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

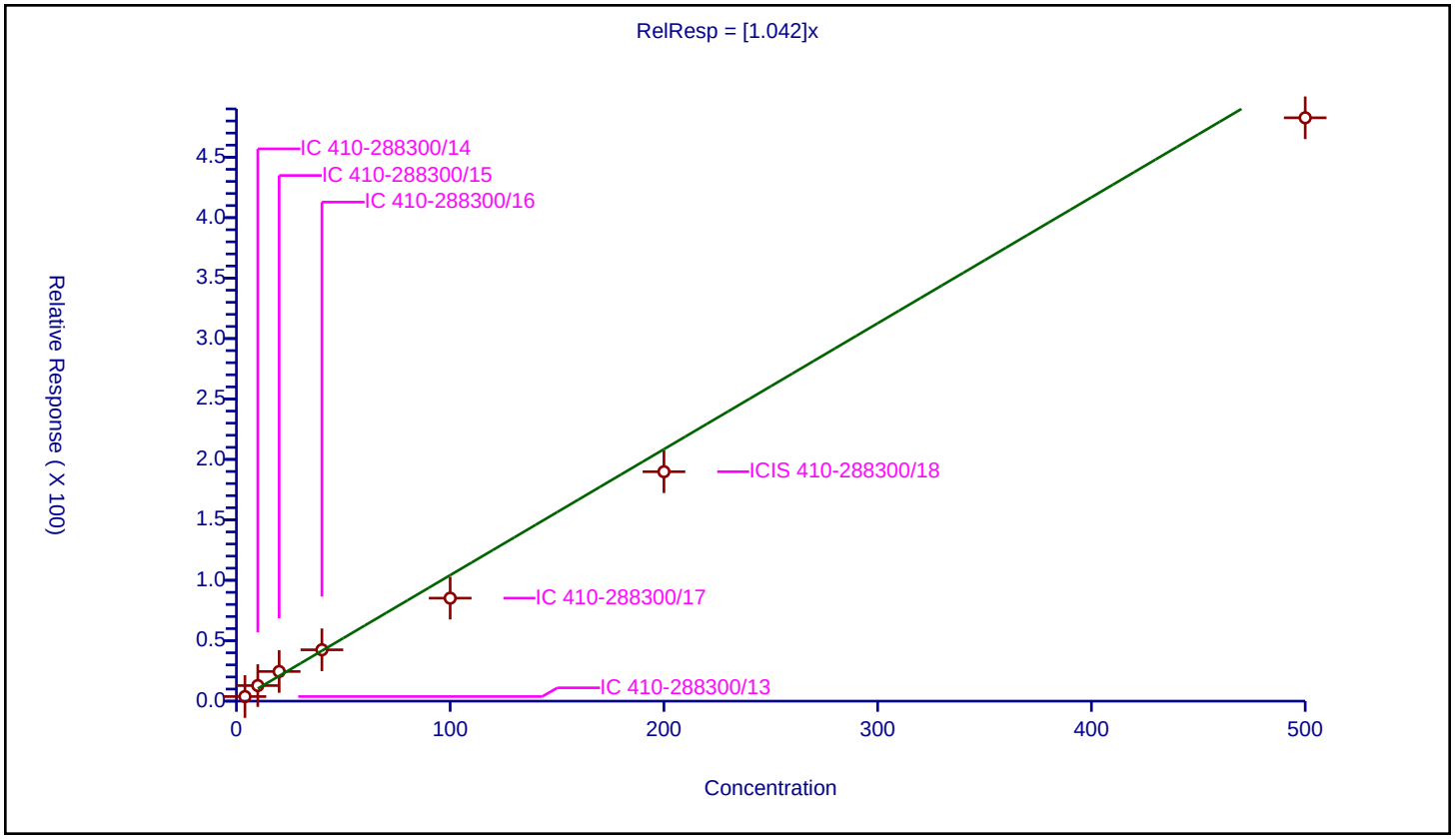
Curve Coefficients

Intercept:	0
Slope:	1.042

Error Coefficients

Standard Error:	523000
Relative Standard Error:	15.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	4.0	3.809123	50.0	136580.0	0.952281	Y
2	IC 410-288300/14	10.0	12.869574	50.0	132044.0	1.286957	Y
3	IC 410-288300/15	20.0	24.542659	50.0	113154.0	1.227133	Y
4	IC 410-288300/16	40.0	42.479772	50.0	117656.0	1.061994	Y
5	IC 410-288300/17	100.0	85.193891	50.0	131878.0	0.851939	Y
6	ICIS 410-288300/18	200.0	189.823602	50.0	129707.0	0.949118	Y
7	IC 410-288300/19	500.0	482.630098	50.0	119756.0	0.96526	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

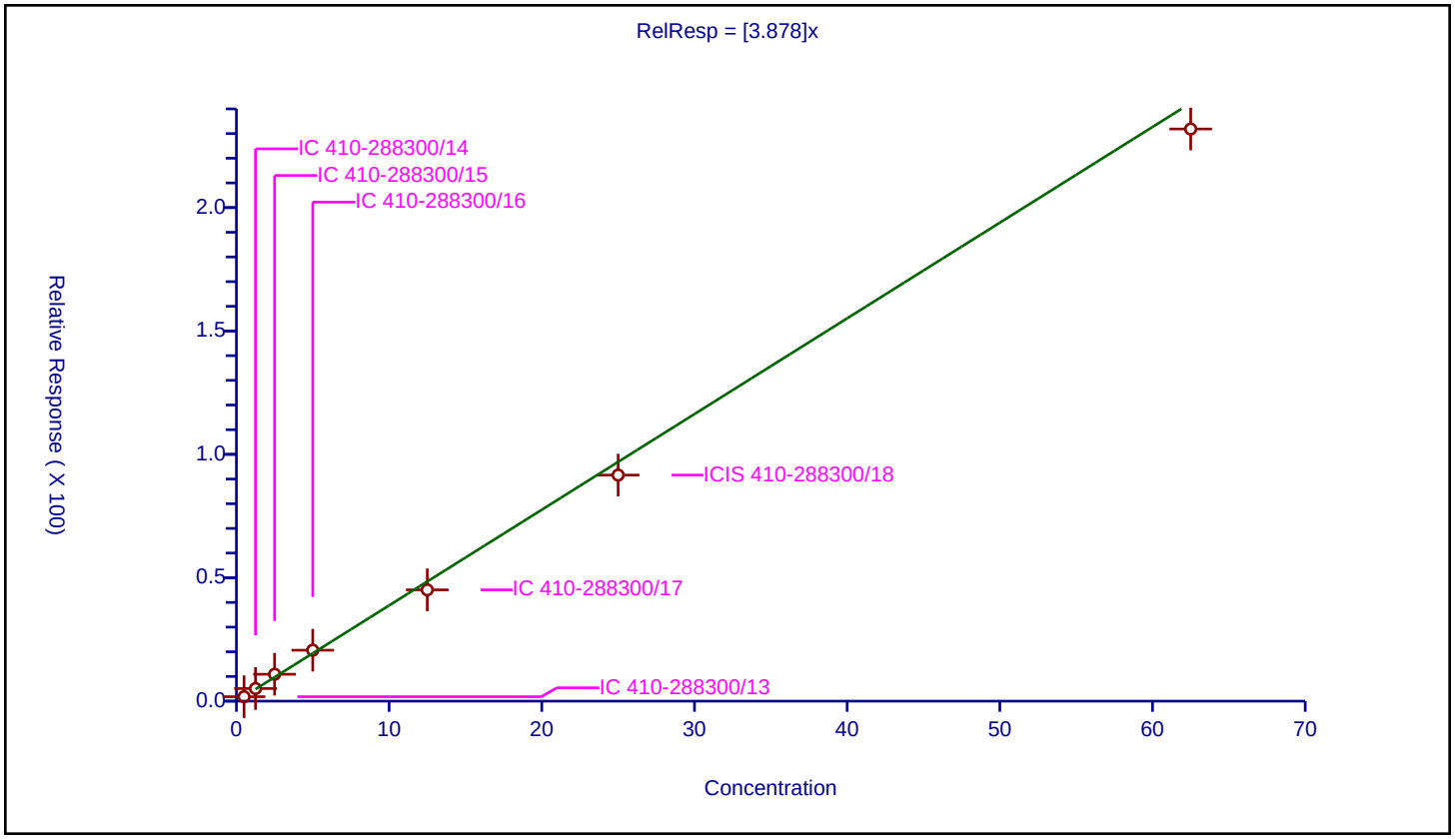
Curve Coefficients

Intercept:	0
Slope:	3.878

Error Coefficients

Standard Error:	252000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.5	1.795285	50.0	136580.0	3.59057	Y
2	IC 410-288300/14	1.25	5.110418	50.0	132044.0	4.088334	Y
3	IC 410-288300/15	2.5	10.892677	50.0	113154.0	4.357071	Y
4	IC 410-288300/16	5.0	20.636857	50.0	117656.0	4.127371	Y
5	IC 410-288300/17	12.5	45.096604	50.0	131878.0	3.607728	Y
6	ICIS 410-288300/18	25.0	91.609165	50.0	129707.0	3.664367	Y
7	IC 410-288300/19	62.5	231.849344	50.0	119756.0	3.709589	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

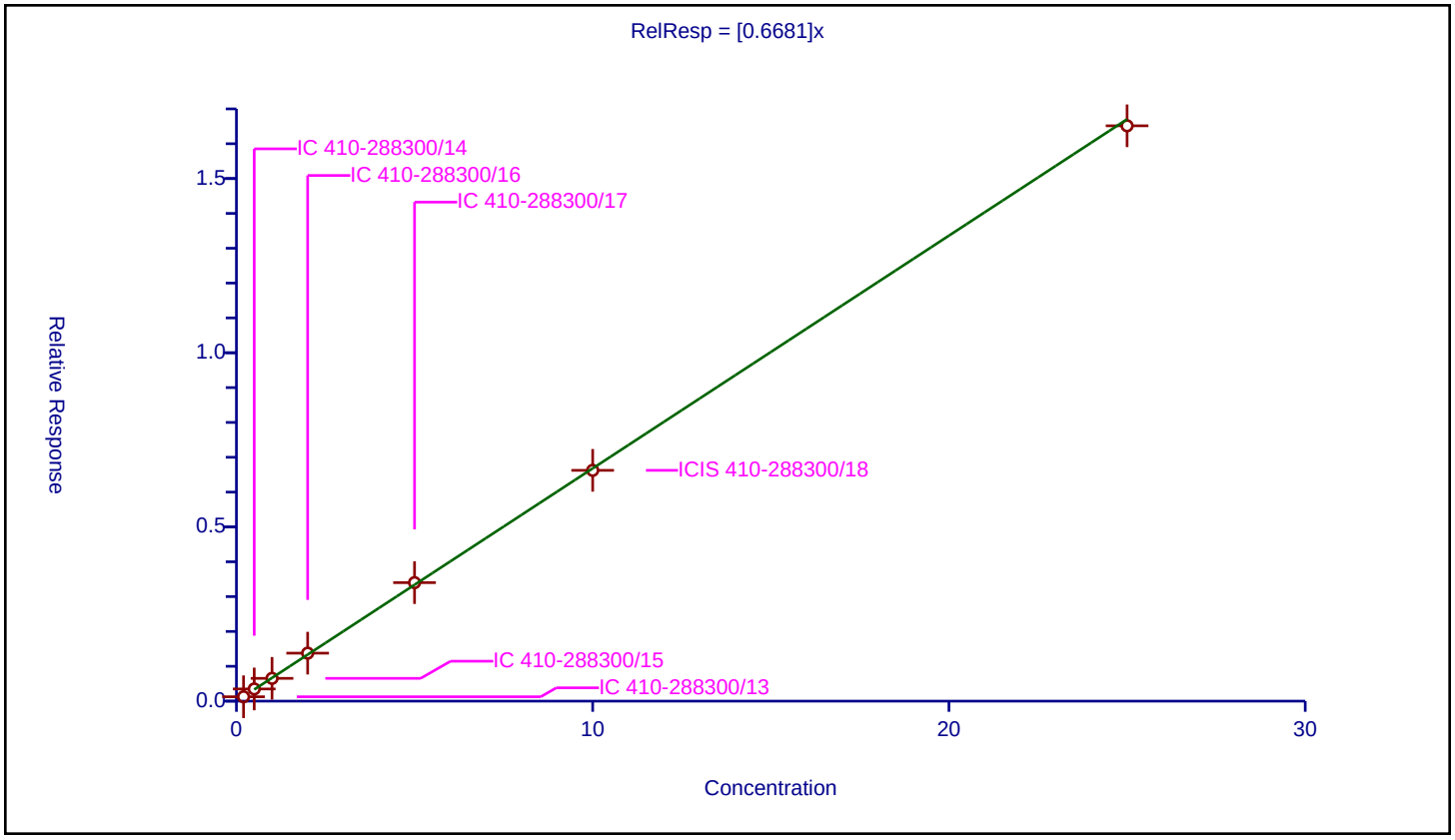
Curve Coefficients

Intercept:	0
Slope:	0.6681

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.126064	10.0	1993587.0	0.630321	Y
2	IC 410-288300/14	0.5	0.35002	10.0	1985770.0	0.700041	Y
3	IC 410-288300/15	1.0	0.653916	10.0	1978464.0	0.653916	Y
4	IC 410-288300/16	2.0	1.377526	10.0	1976130.0	0.688763	Y
5	IC 410-288300/17	5.0	3.401804	10.0	1966718.0	0.680361	Y
6	ICIS 410-288300/18	10.0	6.625212	10.0	1988424.0	0.662521	Y
7	IC 410-288300/19	25.0	16.514782	10.0	2013656.0	0.660591	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

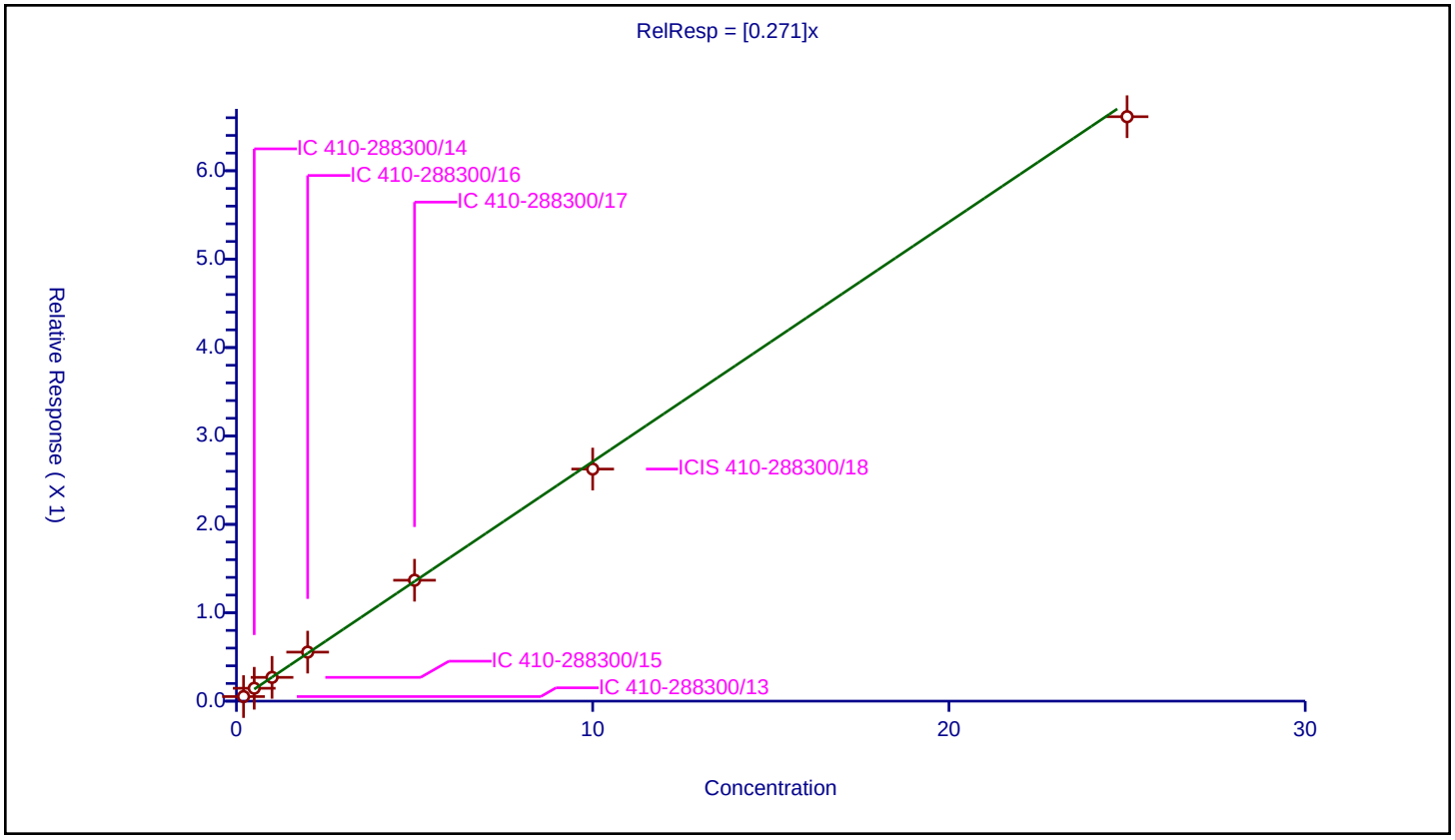
Curve Coefficients

Intercept:	0
Slope:	0.271

Error Coefficients

Standard Error:	596000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.051821	10.0	1993587.0	0.259106	Y
2	IC 410-288300/14	0.5	0.145566	10.0	1985770.0	0.291131	Y
3	IC 410-288300/15	1.0	0.26885	10.0	1978464.0	0.26885	Y
4	IC 410-288300/16	2.0	0.554412	10.0	1976130.0	0.277206	Y
5	IC 410-288300/17	5.0	1.367847	10.0	1966718.0	0.273569	Y
6	ICIS 410-288300/18	10.0	2.62533	10.0	1988424.0	0.262533	Y
7	IC 410-288300/19	25.0	6.61177	10.0	2013656.0	0.264471	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

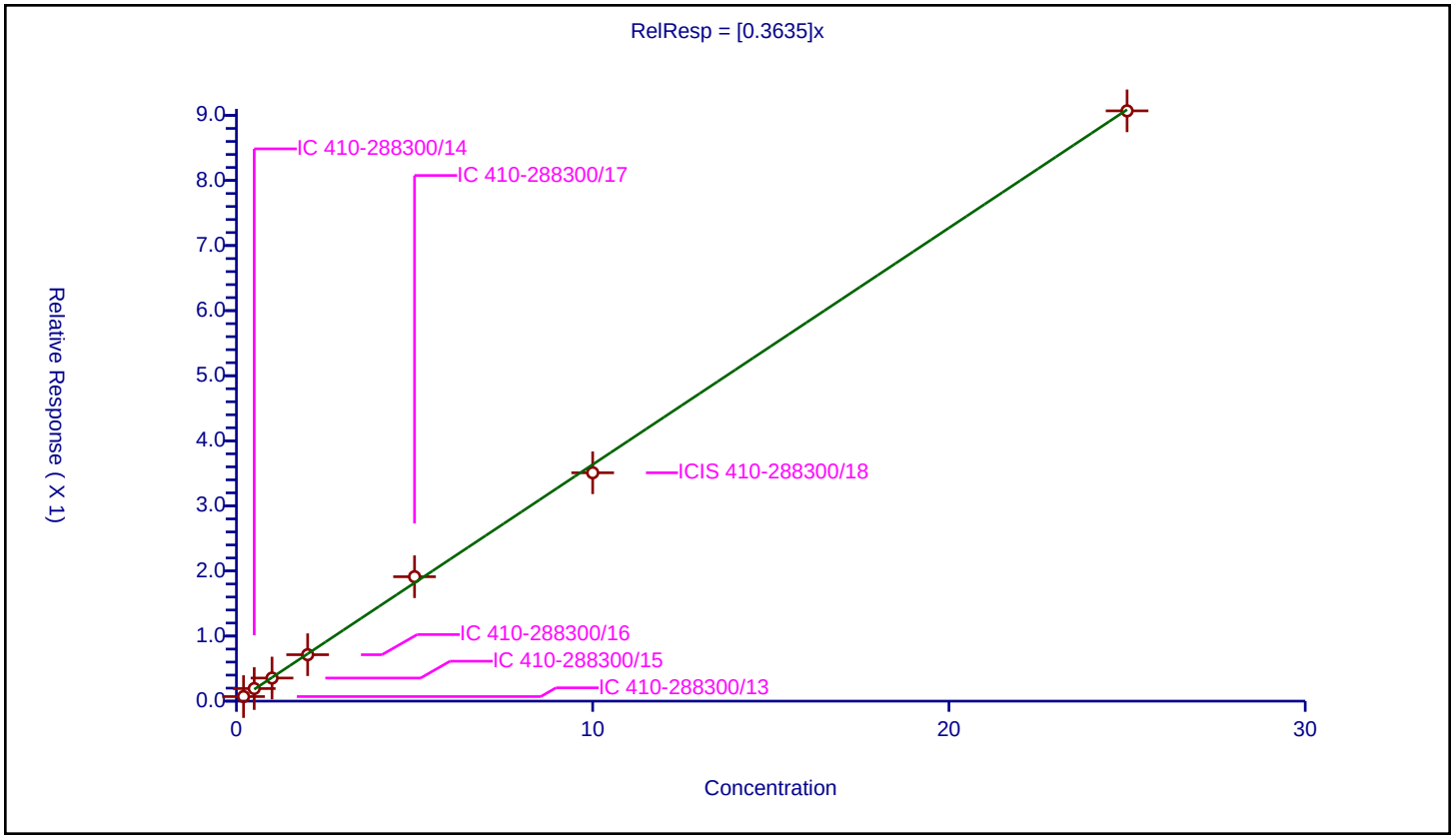
Curve Coefficients

Intercept:	0
Slope:	0.3635

Error Coefficients

Standard Error:	816000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.07015	10.0	1993587.0	0.35075	Y
2	IC 410-288300/14	0.5	0.193245	10.0	1985770.0	0.38649	Y
3	IC 410-288300/15	1.0	0.354826	10.0	1978464.0	0.354826	Y
4	IC 410-288300/16	2.0	0.713399	10.0	1976130.0	0.3567	Y
5	IC 410-288300/17	5.0	1.911743	10.0	1966718.0	0.382349	Y
6	ICIS 410-288300/18	10.0	3.509086	10.0	1988424.0	0.350909	Y
7	IC 410-288300/19	25.0	9.069995	10.0	2013656.0	0.3628	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

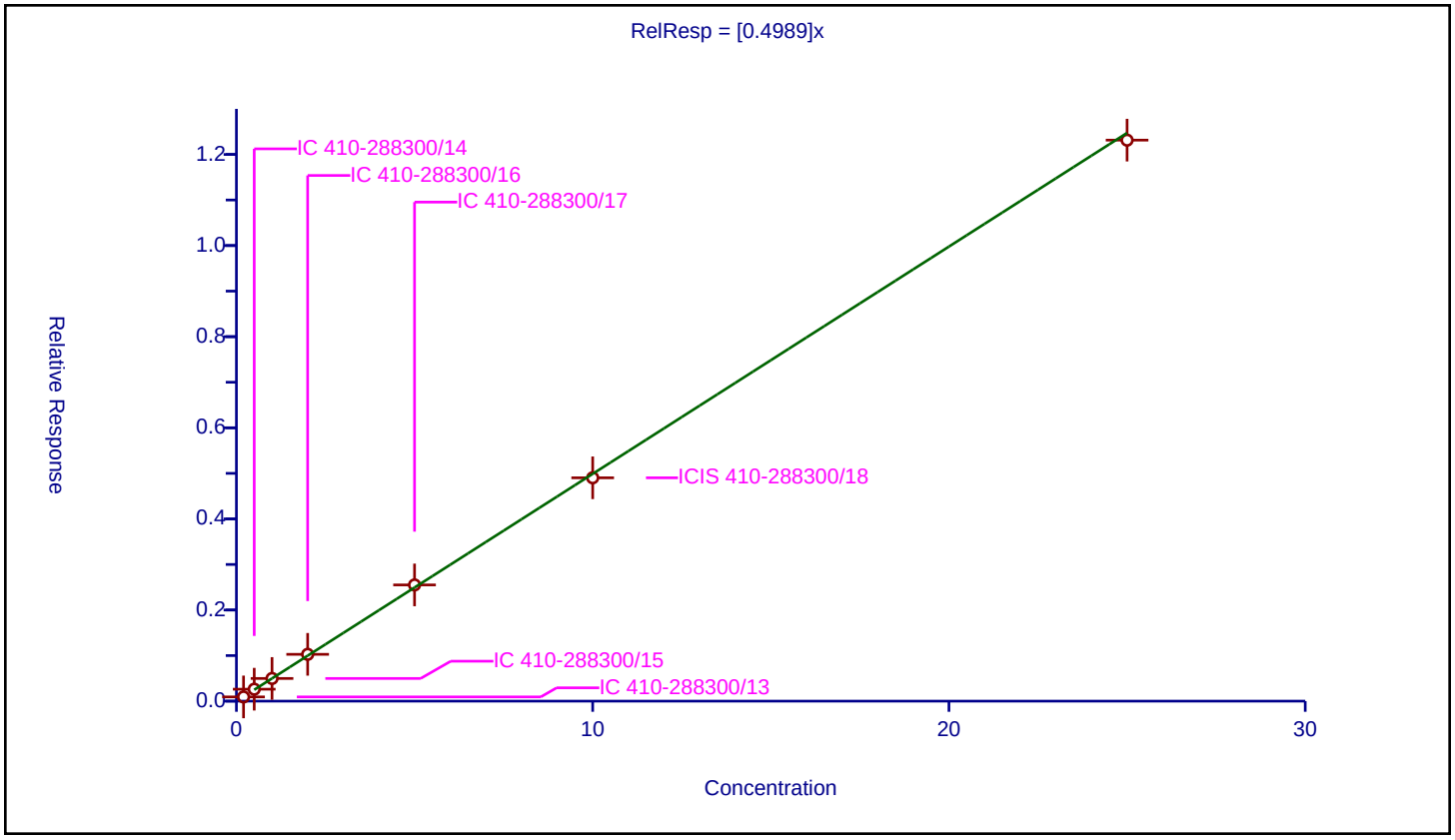
Curve Coefficients

Intercept:	0
Slope:	0.4989

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.092617	10.0	1993587.0	0.463085	Y
2	IC 410-288300/14	0.5	0.262266	10.0	1985770.0	0.524532	Y
3	IC 410-288300/15	1.0	0.497896	10.0	1978464.0	0.497896	Y
4	IC 410-288300/16	2.0	1.027281	10.0	1976130.0	0.51364	Y
5	IC 410-288300/17	5.0	2.550767	10.0	1966718.0	0.510153	Y
6	ICIS 410-288300/18	10.0	4.902606	10.0	1988424.0	0.490261	Y
7	IC 410-288300/19	25.0	12.31394	10.0	2013656.0	0.492558	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

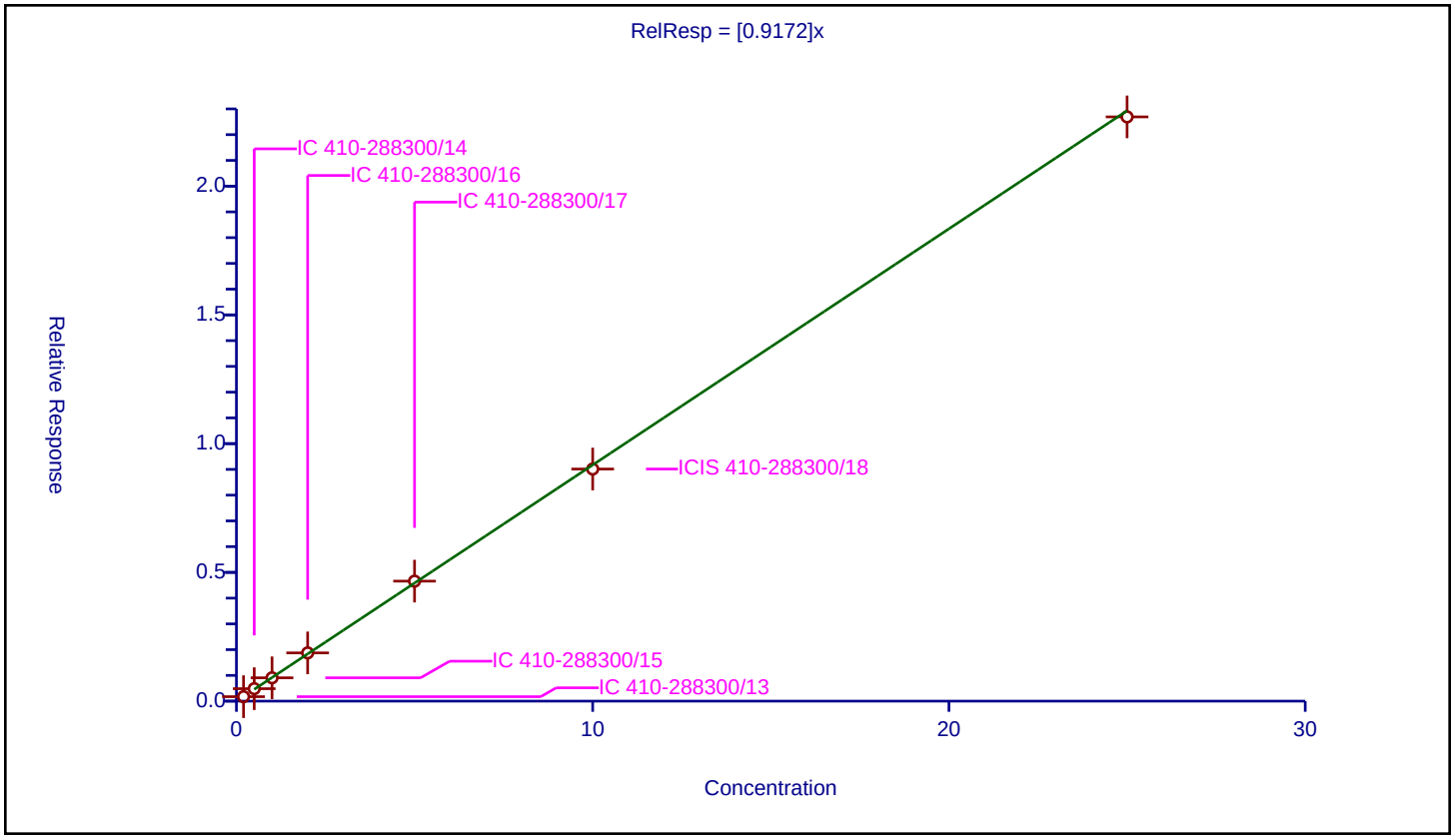
Curve Coefficients

Intercept:	0
Slope:	0.9172

Error Coefficients

Standard Error:	2050000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.173622	10.0	1993587.0	0.868109	Y
2	IC 410-288300/14	0.5	0.483958	10.0	1985770.0	0.967917	Y
3	IC 410-288300/15	1.0	0.906072	10.0	1978464.0	0.906072	Y
4	IC 410-288300/16	2.0	1.873713	10.0	1976130.0	0.936856	Y
5	IC 410-288300/17	5.0	4.660617	10.0	1966718.0	0.932123	Y
6	ICIS 410-288300/18	10.0	9.014204	10.0	1988424.0	0.90142	Y
7	IC 410-288300/19	25.0	22.689506	10.0	2013656.0	0.90758	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

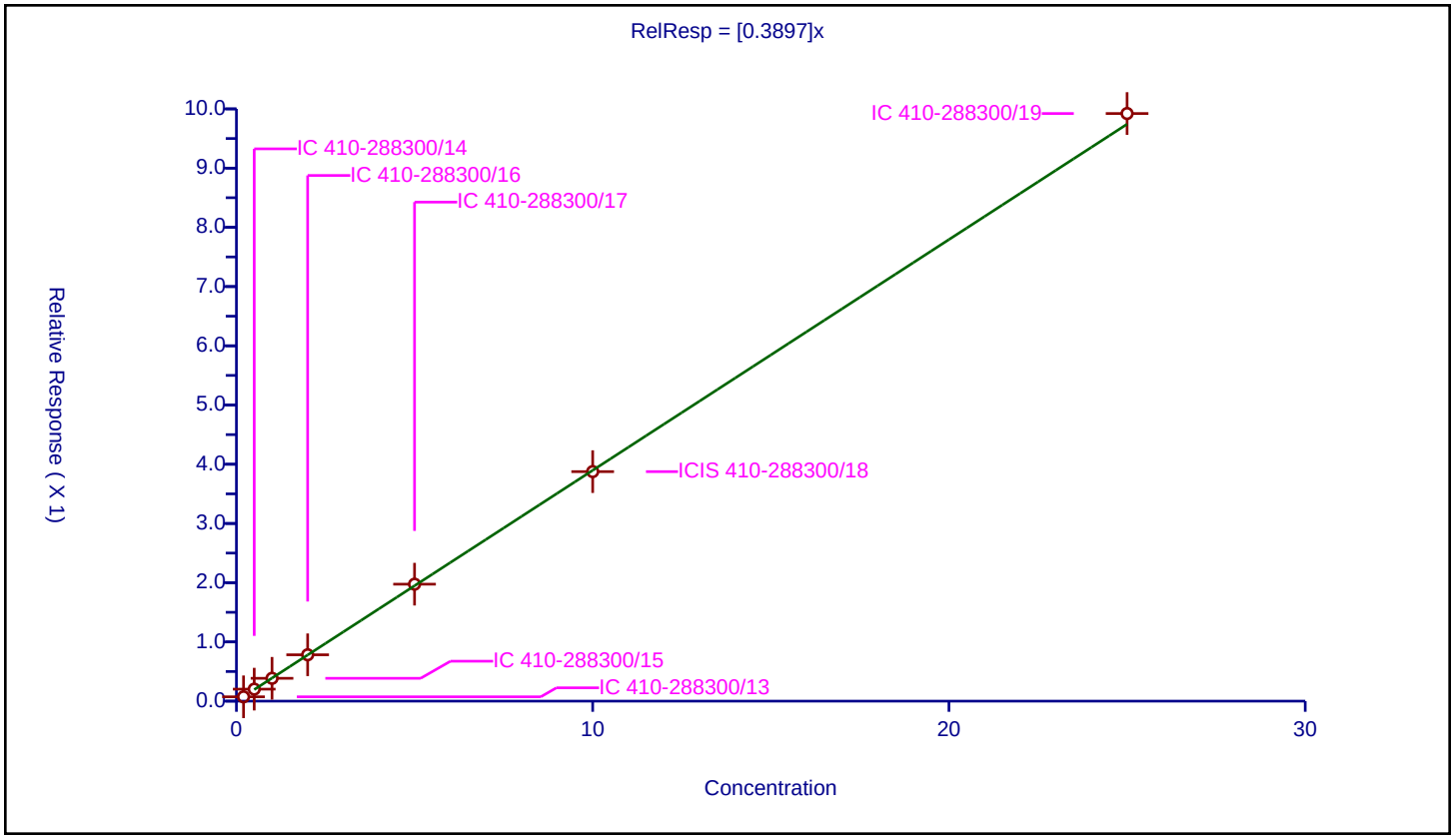
Curve Coefficients

Intercept:	0
Slope:	0.3897

Error Coefficients

Standard Error:	891000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.073265	10.0	1993587.0	0.366325	Y
2	IC 410-288300/14	0.5	0.202607	10.0	1985770.0	0.405213	Y
3	IC 410-288300/15	1.0	0.385572	10.0	1978464.0	0.385572	Y
4	IC 410-288300/16	2.0	0.782514	10.0	1976130.0	0.391257	Y
5	IC 410-288300/17	5.0	1.97497	10.0	1966718.0	0.394994	Y
6	ICIS 410-288300/18	10.0	3.875557	10.0	1988424.0	0.387556	Y
7	IC 410-288300/19	25.0	9.921873	10.0	2013656.0	0.396875	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

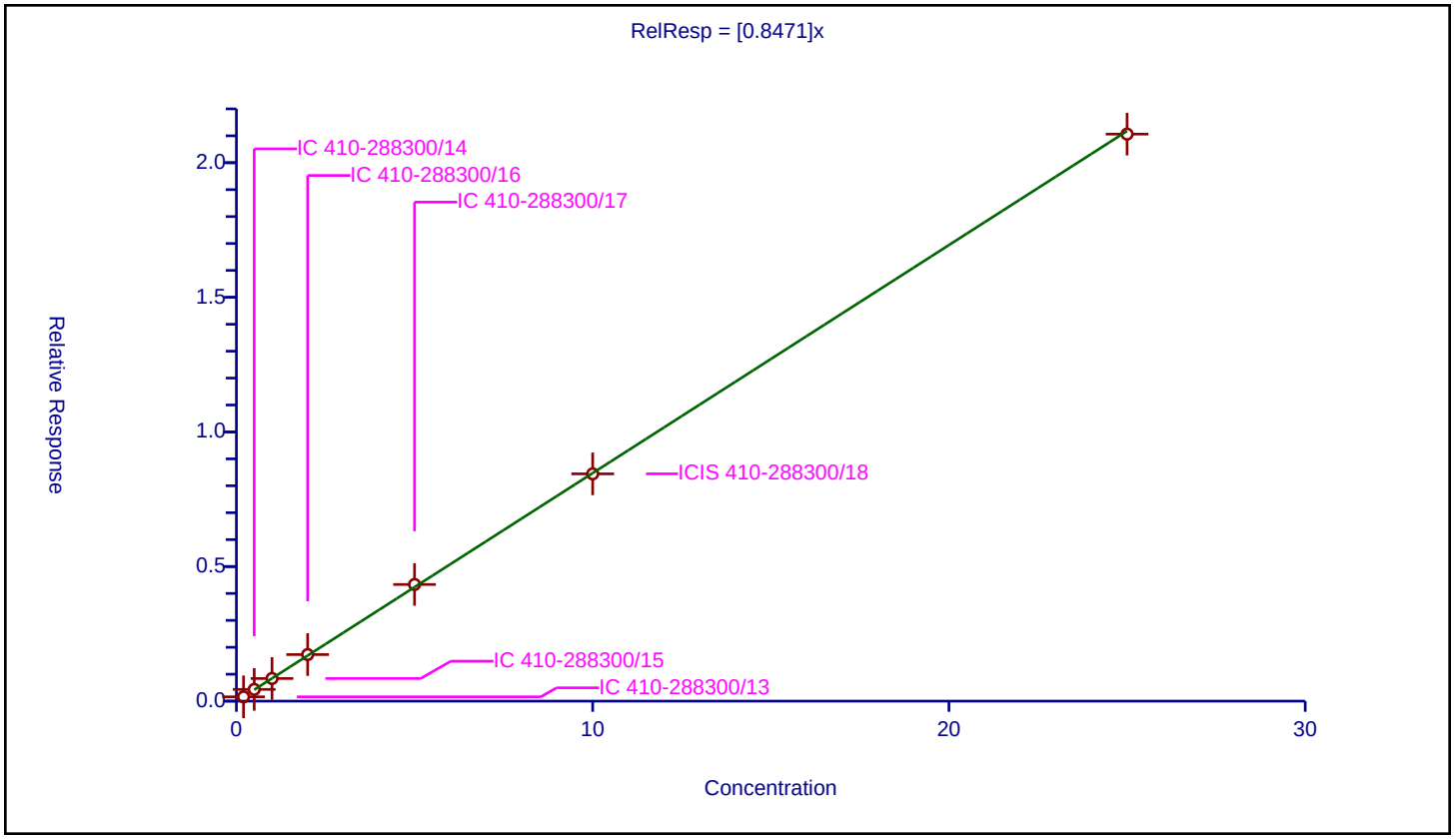
Curve Coefficients

Intercept:	0
Slope:	0.8471

Error Coefficients

Standard Error:	1900000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.159637	10.0	1993587.0	0.798184	Y
2	IC 410-288300/14	0.5	0.435987	10.0	1985770.0	0.871974	Y
3	IC 410-288300/15	1.0	0.841178	10.0	1978464.0	0.841178	Y
4	IC 410-288300/16	2.0	1.729608	10.0	1976130.0	0.864804	Y
5	IC 410-288300/17	5.0	4.333417	10.0	1966718.0	0.866683	Y
6	ICIS 410-288300/18	10.0	8.443124	10.0	1988424.0	0.844312	Y
7	IC 410-288300/19	25.0	21.063116	10.0	2013656.0	0.842525	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

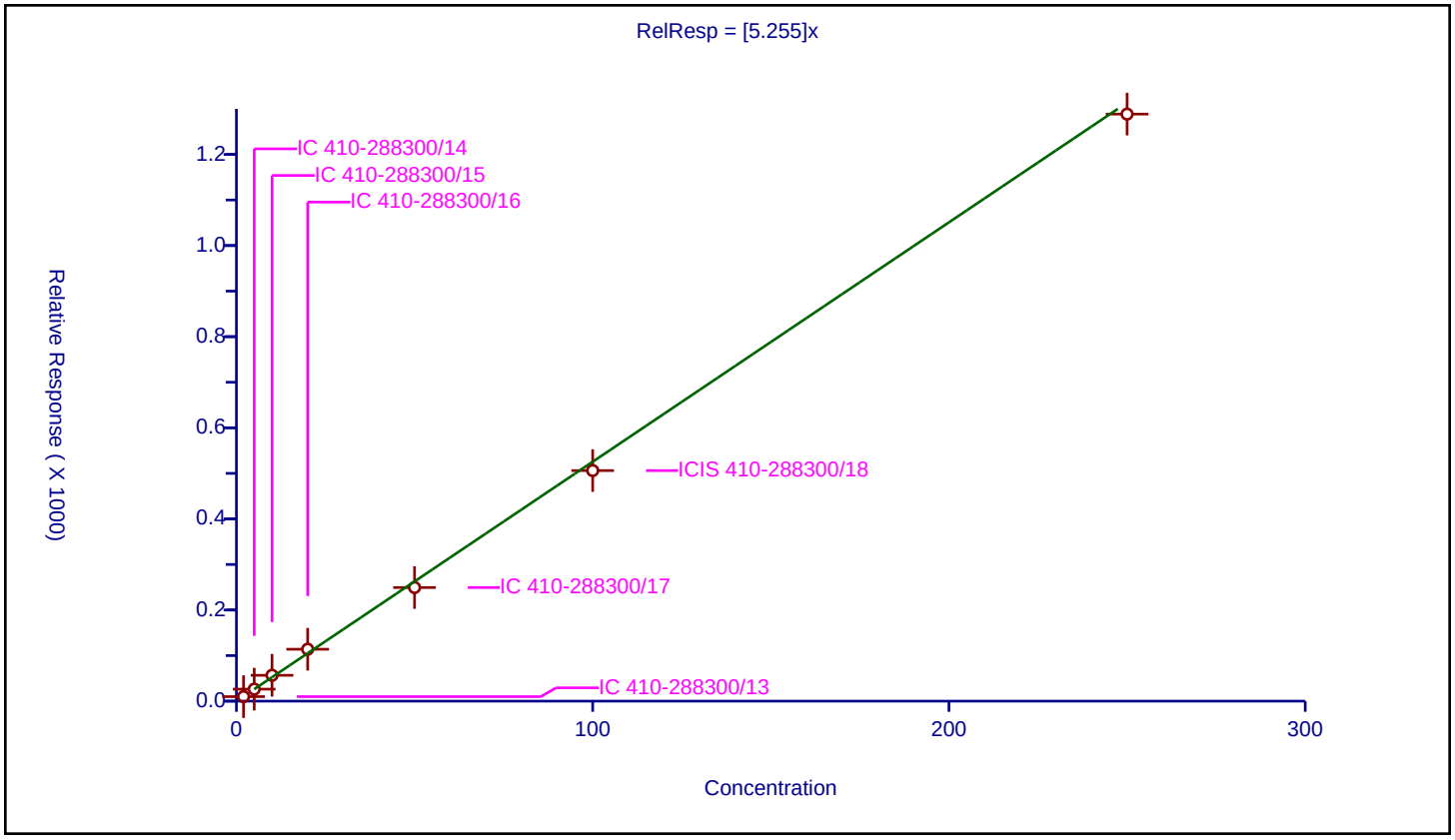
Curve Coefficients

Intercept:	0
Slope:	5.255

Error Coefficients

Standard Error:	1400000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	2.0	9.892737	50.0	136580.0	4.946368	Y
2	IC 410-288300/14	5.0	26.32683	50.0	132044.0	5.265366	Y
3	IC 410-288300/15	10.0	56.740372	50.0	113154.0	5.674037	Y
4	IC 410-288300/16	20.0	113.920242	50.0	117656.0	5.696012	Y
5	IC 410-288300/17	50.0	249.342195	50.0	131878.0	4.986844	Y
6	ICIS 410-288300/18	100.0	506.095276	50.0	129707.0	5.060953	Y
7	IC 410-288300/19	250.0	1288.566752	50.0	119756.0	5.154267	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

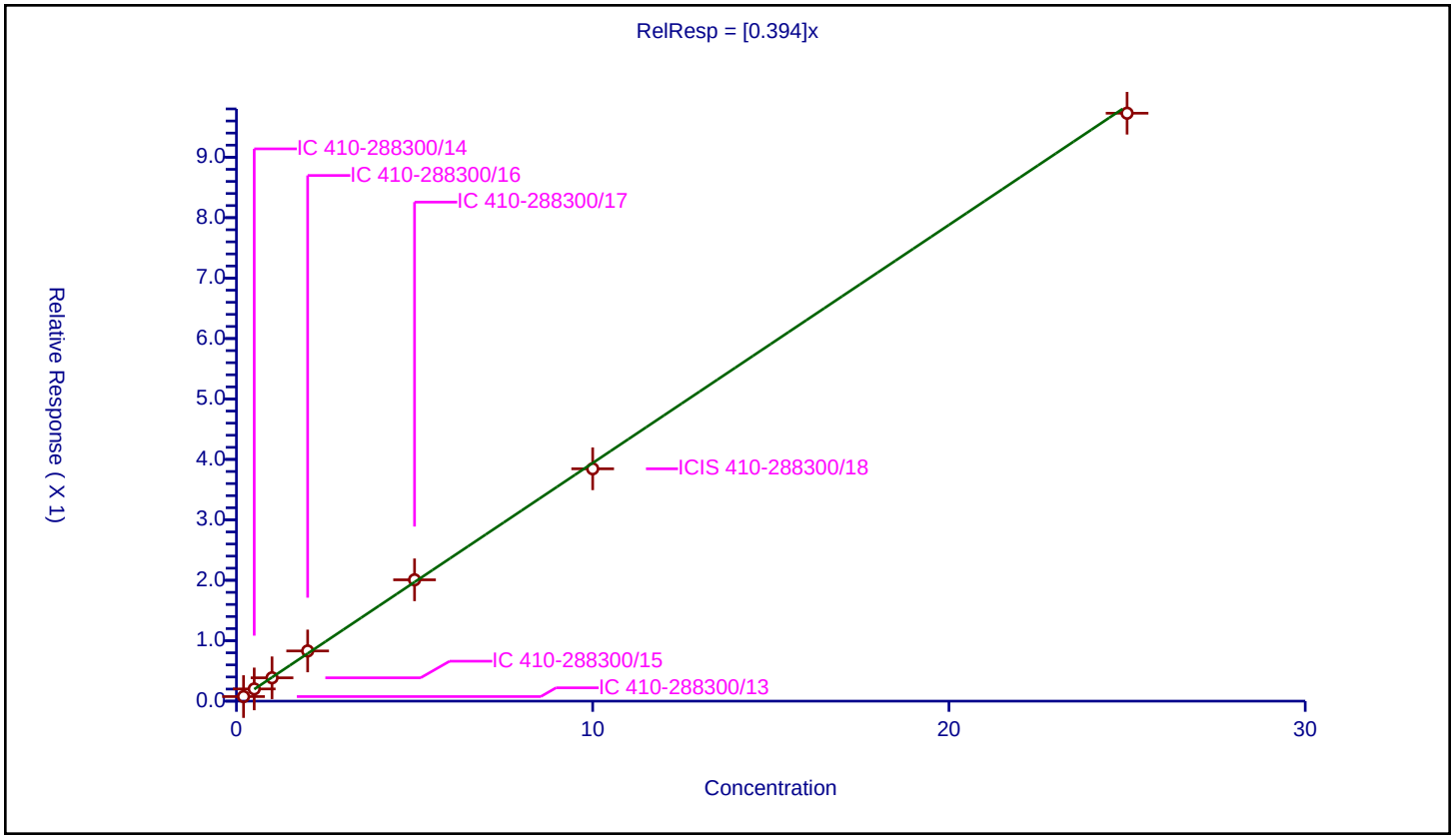
Curve Coefficients

Intercept:	0
Slope:	0.394

Error Coefficients

Standard Error:	877000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.075507	10.0	1993587.0	0.377536	Y
2	IC 410-288300/14	0.5	0.201871	10.0	1985770.0	0.403743	Y
3	IC 410-288300/15	1.0	0.386234	10.0	1978464.0	0.386234	Y
4	IC 410-288300/16	2.0	0.830735	10.0	1976130.0	0.415367	Y
5	IC 410-288300/17	5.0	2.00772	10.0	1966718.0	0.401544	Y
6	ICIS 410-288300/18	10.0	3.844738	10.0	1988424.0	0.384474	Y
7	IC 410-288300/19	25.0	9.728678	10.0	2013656.0	0.389147	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

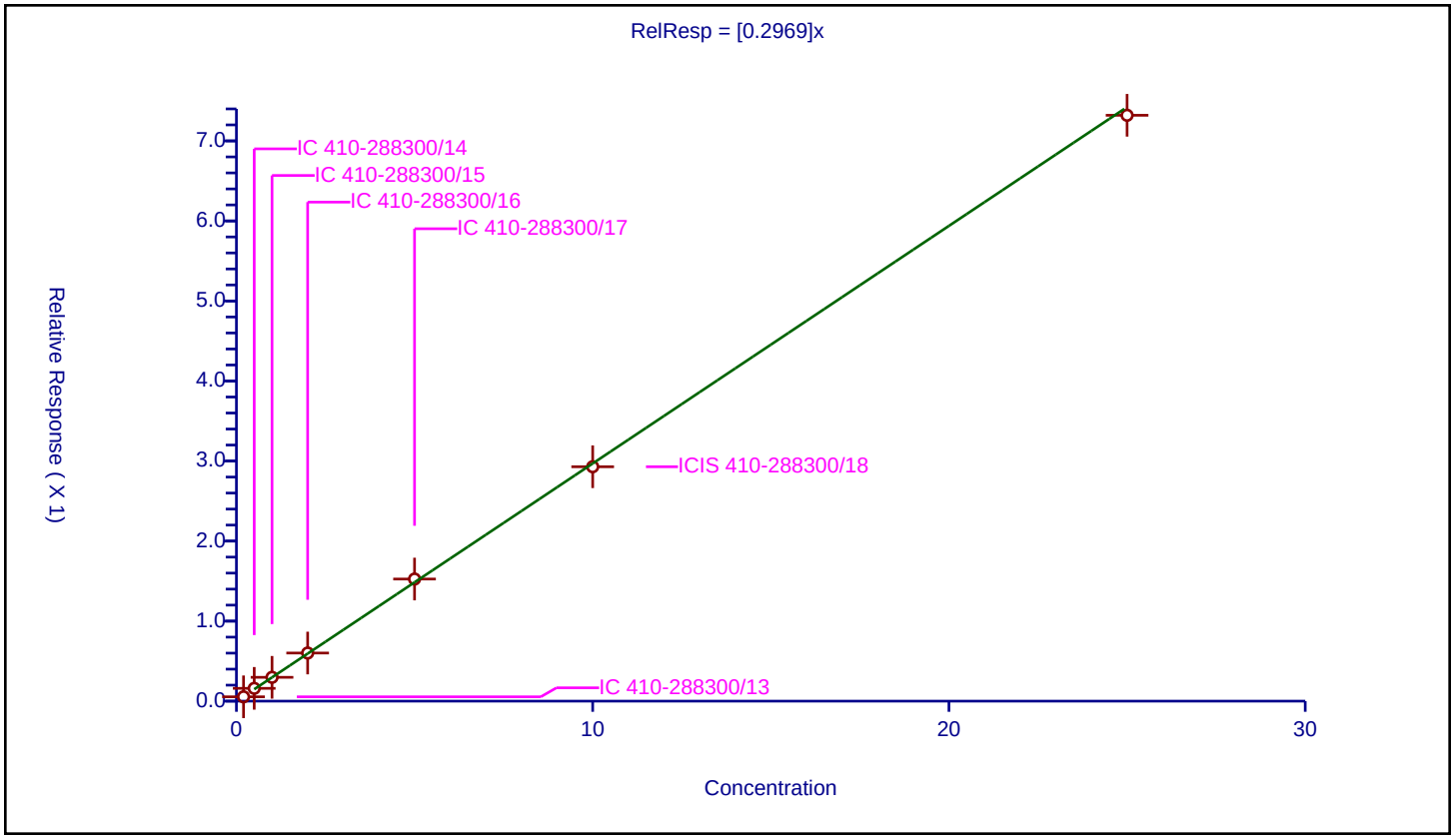
Curve Coefficients

Intercept:	0
Slope:	0.2969

Error Coefficients

Standard Error:	661000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.053928	10.0	1993587.0	0.26964	Y
2	IC 410-288300/14	0.5	0.159852	10.0	1985770.0	0.319705	Y
3	IC 410-288300/15	1.0	0.297716	10.0	1978464.0	0.297716	Y
4	IC 410-288300/16	2.0	0.6012	10.0	1976130.0	0.3006	Y
5	IC 410-288300/17	5.0	1.525704	10.0	1966718.0	0.305141	Y
6	ICIS 410-288300/18	10.0	2.928571	10.0	1988424.0	0.292857	Y
7	IC 410-288300/19	25.0	7.319979	10.0	2013656.0	0.292799	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

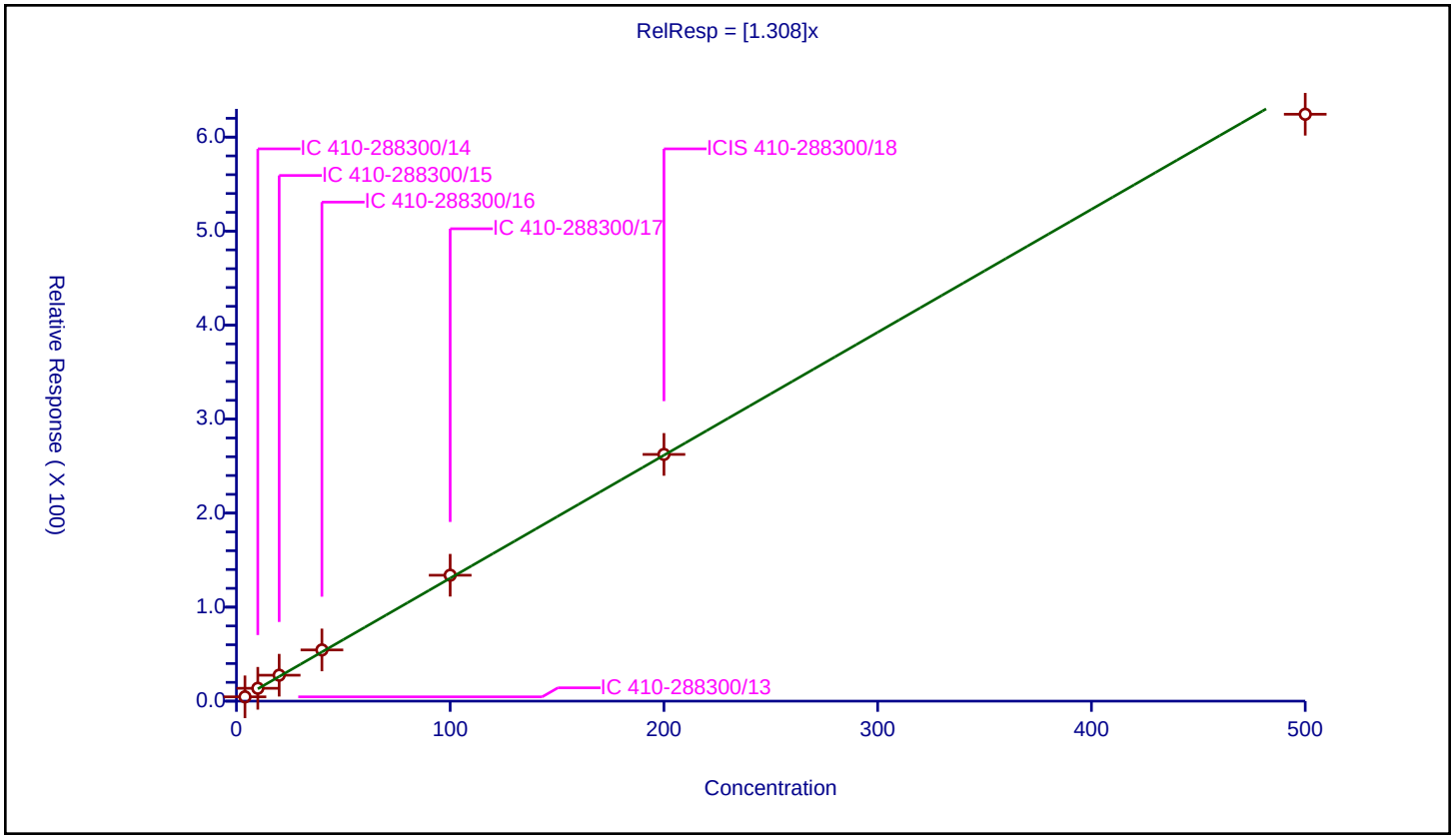
Curve Coefficients

Intercept:	0
Slope:	1.308

Error Coefficients

Standard Error:	688000
Relative Standard Error:	6.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	4.0	4.5801	50.0	136580.0	1.145025	Y
2	IC 410-288300/14	10.0	13.681424	50.0	132044.0	1.368142	Y
3	IC 410-288300/15	20.0	27.588508	50.0	113154.0	1.379425	Y
4	IC 410-288300/16	40.0	54.477035	50.0	117656.0	1.361926	Y
5	IC 410-288300/17	100.0	133.938564	50.0	131878.0	1.339386	Y
6	ICIS 410-288300/18	200.0	262.461933	50.0	129707.0	1.31231	Y
7	IC 410-288300/19	500.0	624.311517	50.0	119756.0	1.248623	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

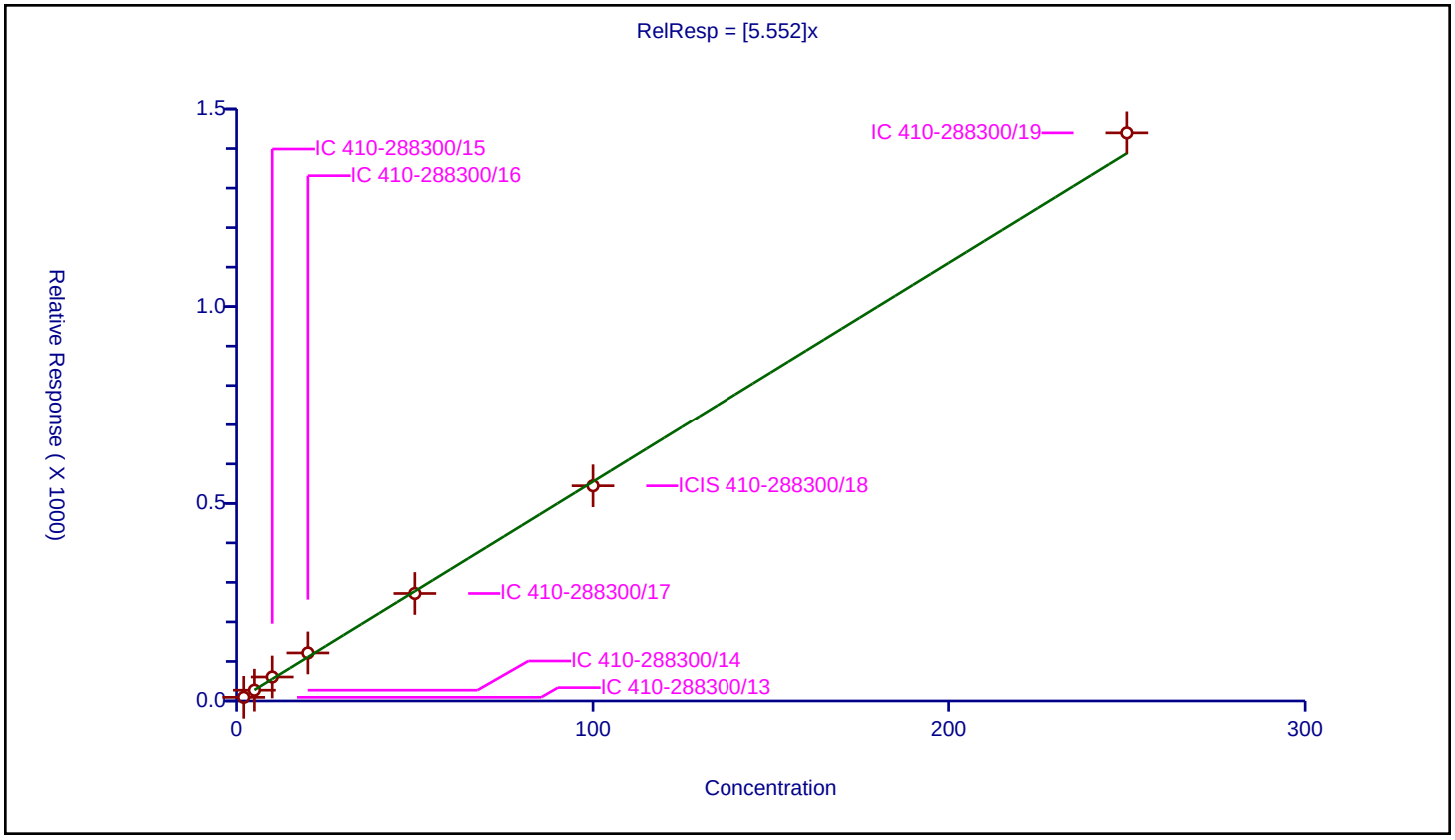
Curve Coefficients

Intercept:	0
Slope:	5.552

Error Coefficients

Standard Error:	1550000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	2.0	9.233416	50.0	136580.0	4.616708	Y
2	IC 410-288300/14	5.0	27.315137	50.0	132044.0	5.463027	Y
3	IC 410-288300/15	10.0	60.657158	50.0	113154.0	6.065716	Y
4	IC 410-288300/16	20.0	121.542888	50.0	117656.0	6.077144	Y
5	IC 410-288300/17	50.0	271.956657	50.0	131878.0	5.439133	Y
6	ICIS 410-288300/18	100.0	544.680318	50.0	129707.0	5.446803	Y
7	IC 410-288300/19	250.0	1439.706153	50.0	119756.0	5.758825	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

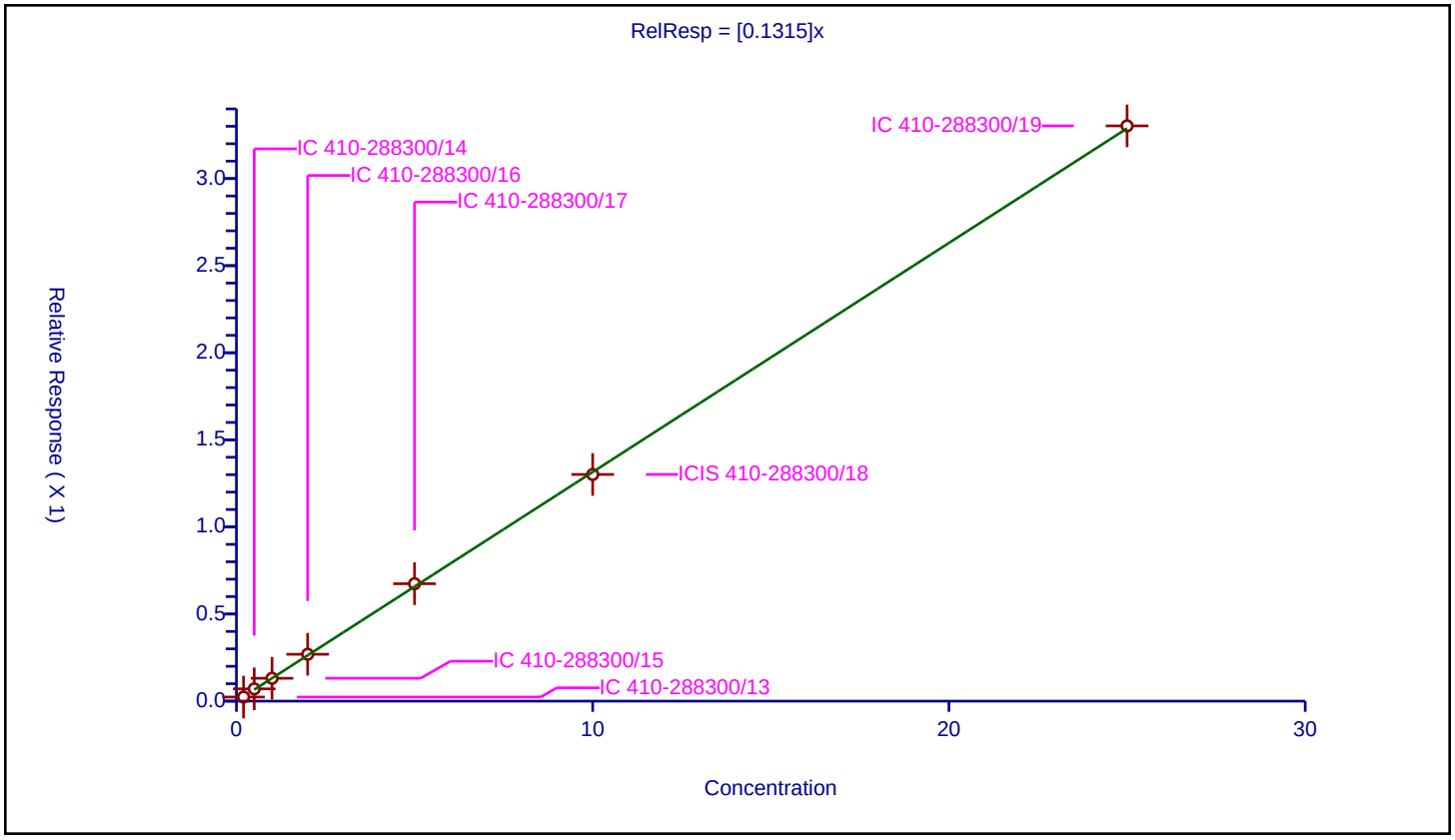
Curve Coefficients

Intercept:	0
Slope:	0.1315

Error Coefficients

Standard Error:	297000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.02343	10.0	1993587.0	0.117151	Y
2	IC 410-288300/14	0.5	0.07034	10.0	1985770.0	0.140681	Y
3	IC 410-288300/15	1.0	0.131243	10.0	1978464.0	0.131243	Y
4	IC 410-288300/16	2.0	0.269092	10.0	1976130.0	0.134546	Y
5	IC 410-288300/17	5.0	0.674057	10.0	1966718.0	0.134811	Y
6	ICIS 410-288300/18	10.0	1.301302	10.0	1988424.0	0.13013	Y
7	IC 410-288300/19	25.0	3.302411	10.0	2013656.0	0.132096	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

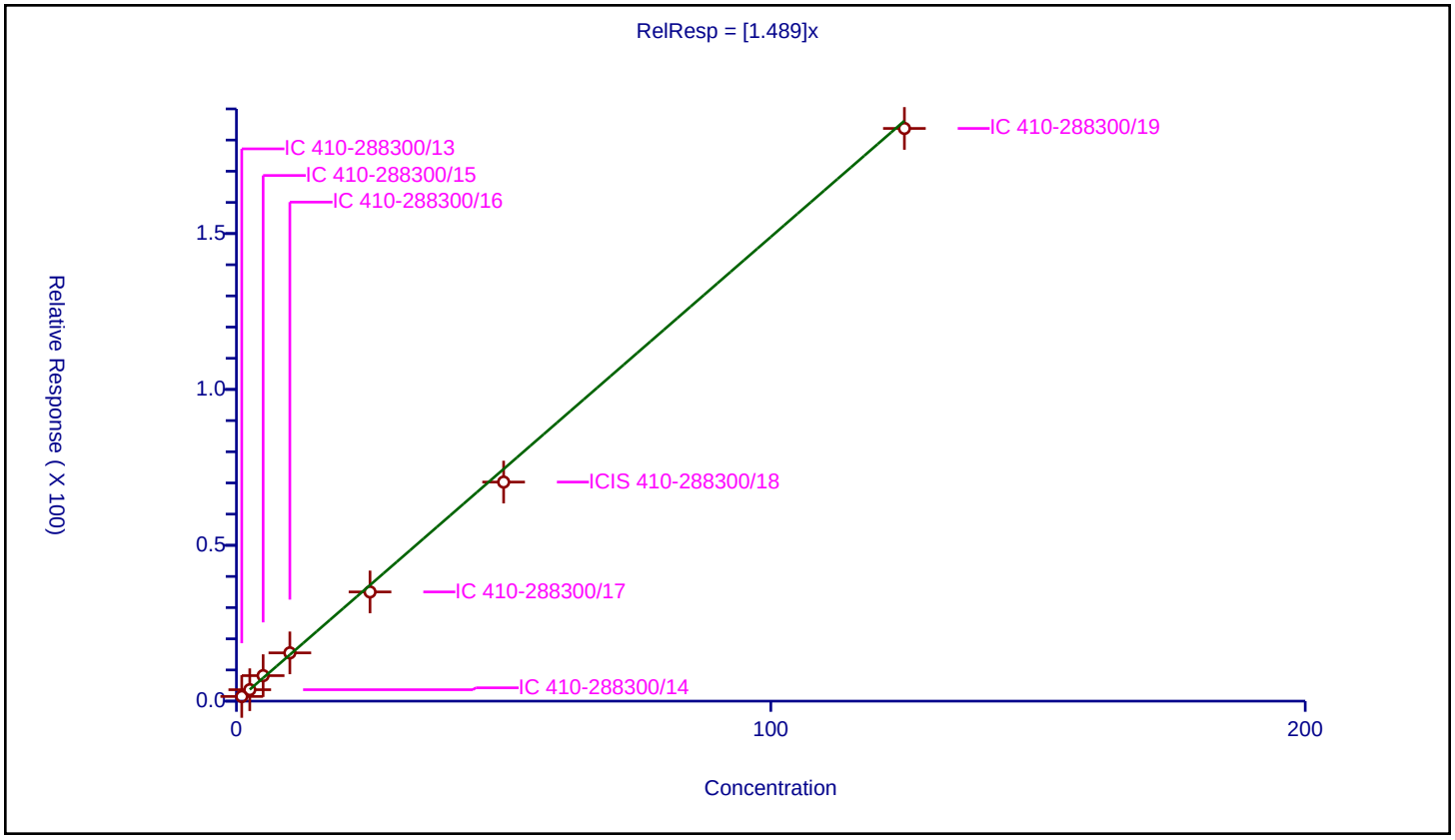
Curve Coefficients

Intercept:	0
Slope:	1.489

Error Coefficients

Standard Error:	199000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	1.0	1.497657	50.0	136580.0	1.497657	Y
2	IC 410-288300/14	2.5	3.665824	50.0	132044.0	1.466329	Y
3	IC 410-288300/15	5.0	8.177351	50.0	113154.0	1.63547	Y
4	IC 410-288300/16	10.0	15.485823	50.0	117656.0	1.548582	Y
5	IC 410-288300/17	25.0	35.035032	50.0	131878.0	1.401401	Y
6	ICIS 410-288300/18	50.0	70.281481	50.0	129707.0	1.40563	Y
7	IC 410-288300/19	125.0	183.726494	50.0	119756.0	1.469812	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

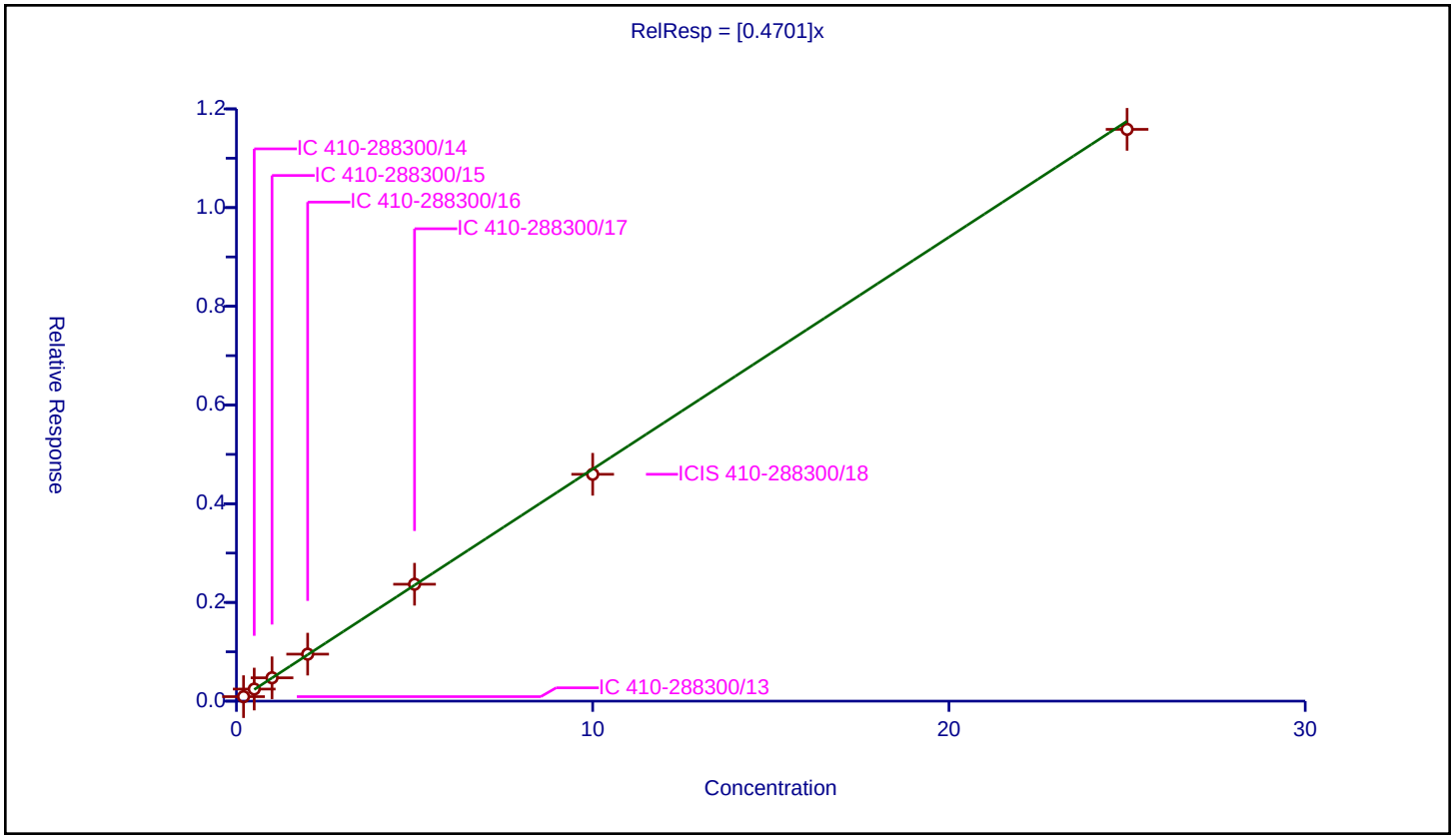
Curve Coefficients

Intercept:	0
Slope:	0.4701

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.091042	10.0	1993587.0	0.45521	Y
2	IC 410-288300/14	0.5	0.244641	10.0	1985770.0	0.489281	Y
3	IC 410-288300/15	1.0	0.47312	10.0	1978464.0	0.47312	Y
4	IC 410-288300/16	2.0	0.952103	10.0	1976130.0	0.476052	Y
5	IC 410-288300/17	5.0	2.368997	10.0	1966718.0	0.473799	Y
6	ICIS 410-288300/18	10.0	4.596721	10.0	1988424.0	0.459672	Y
7	IC 410-288300/19	25.0	11.585494	10.0	2013656.0	0.46342	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

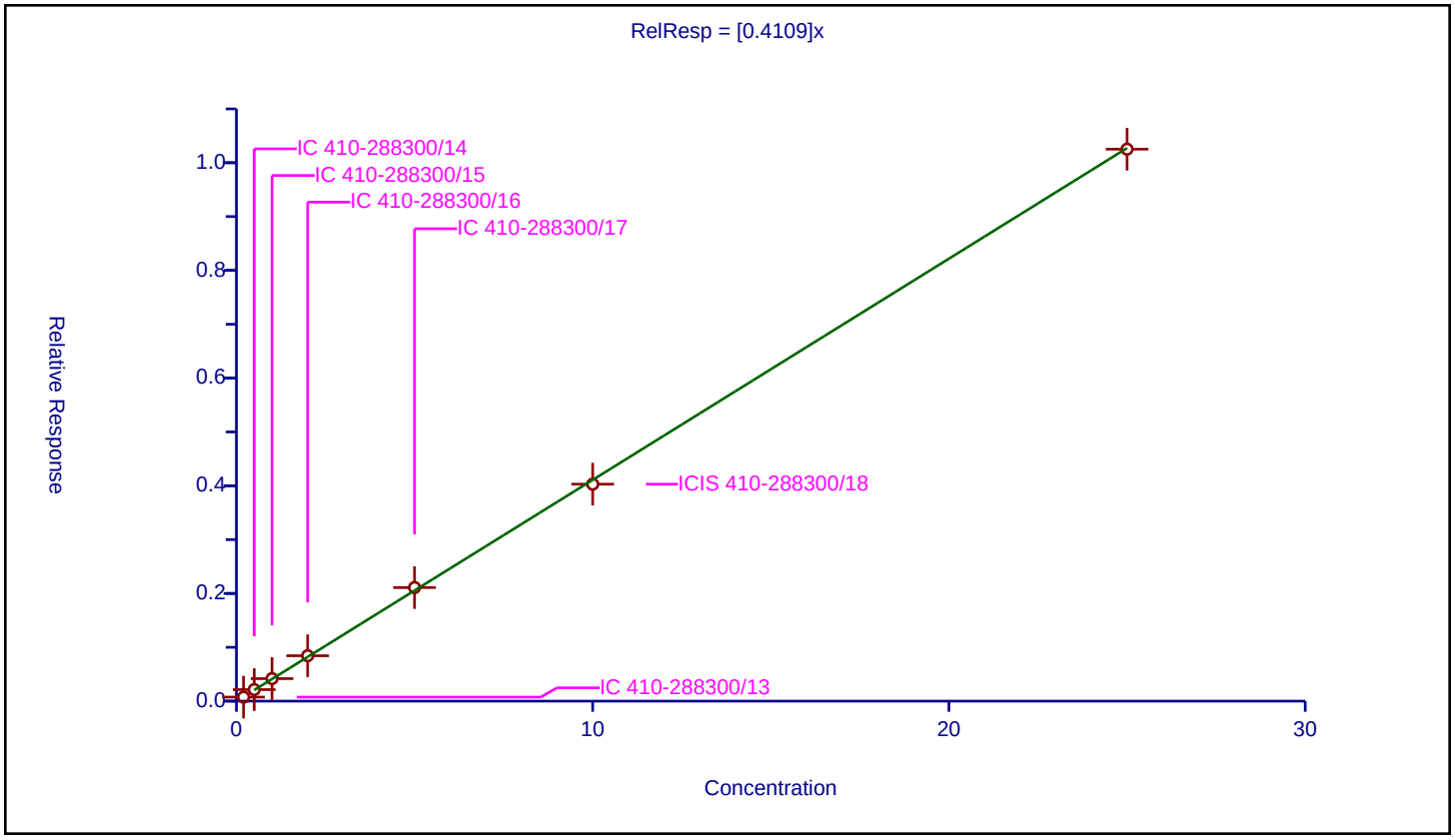
Curve Coefficients

Intercept:	0
Slope:	0.4109

Error Coefficients

Standard Error:	923000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.074549	10.0	1993587.0	0.372745	Y
2	IC 410-288300/14	0.5	0.21432	10.0	1985770.0	0.42864	Y
3	IC 410-288300/15	1.0	0.418239	10.0	1978464.0	0.418239	Y
4	IC 410-288300/16	2.0	0.843173	10.0	1976130.0	0.421587	Y
5	IC 410-288300/17	5.0	2.109697	10.0	1966718.0	0.421939	Y
6	ICIS 410-288300/18	10.0	4.030116	10.0	1988424.0	0.403012	Y
7	IC 410-288300/19	25.0	10.251955	10.0	2013656.0	0.410078	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

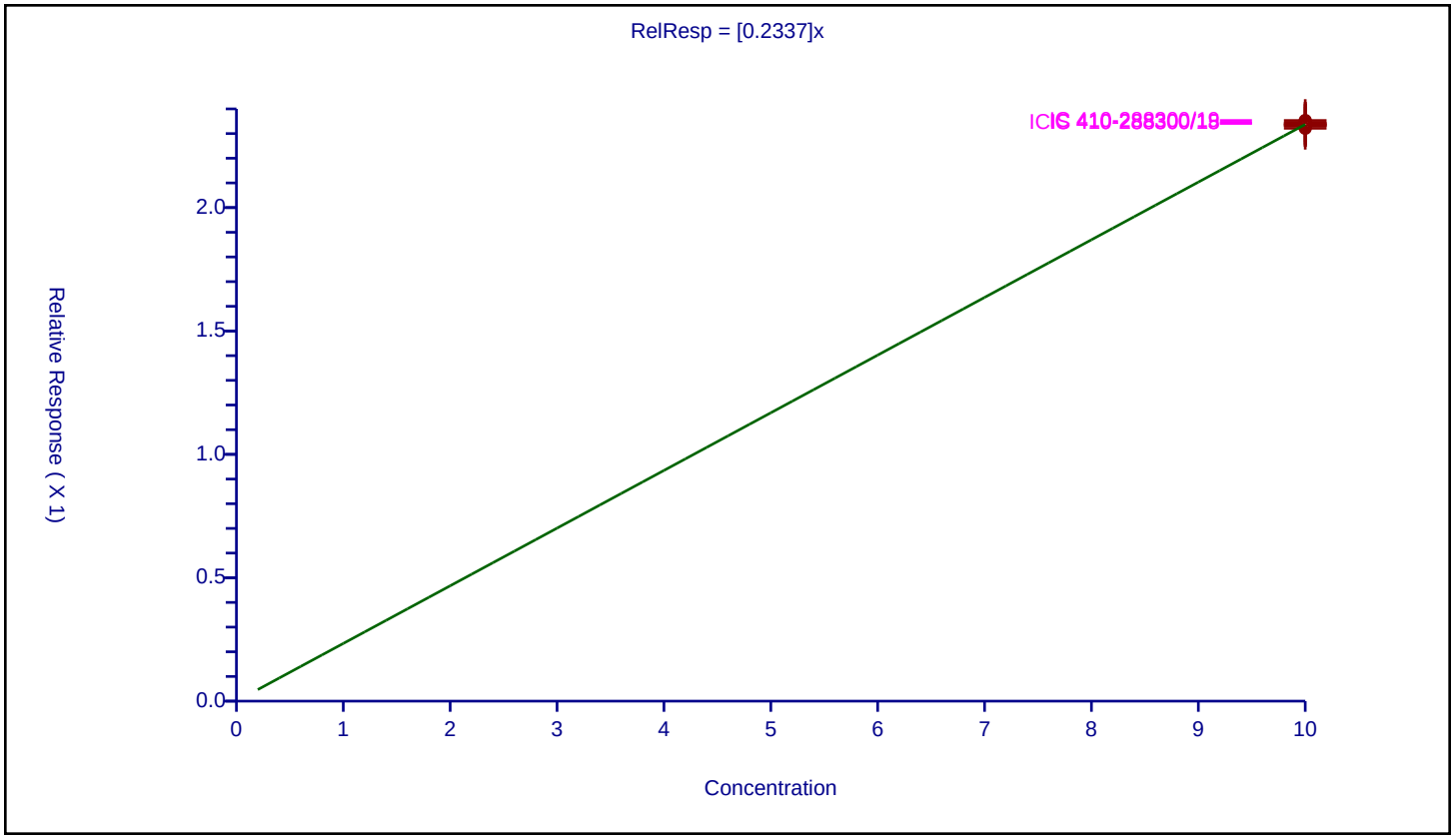
Curve Coefficients

Intercept:	0
Slope:	0.2337

Error Coefficients

Standard Error:	501000
Relative Standard Error:	0.4
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	2.332424	10.0	1993587.0	0.233242	Y
2	IC 410-288300/14	10.0	2.336162	10.0	1985770.0	0.233616	Y
3	IC 410-288300/15	10.0	2.341478	10.0	1978464.0	0.234148	Y
4	IC 410-288300/16	10.0	2.321391	10.0	1976130.0	0.232139	Y
5	IC 410-288300/17	10.0	2.332465	10.0	1966718.0	0.233246	Y
6	ICIS 410-288300/18	10.0	2.342257	10.0	1988424.0	0.234226	Y
7	IC 410-288300/19	10.0	2.352924	10.0	2013656.0	0.235292	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

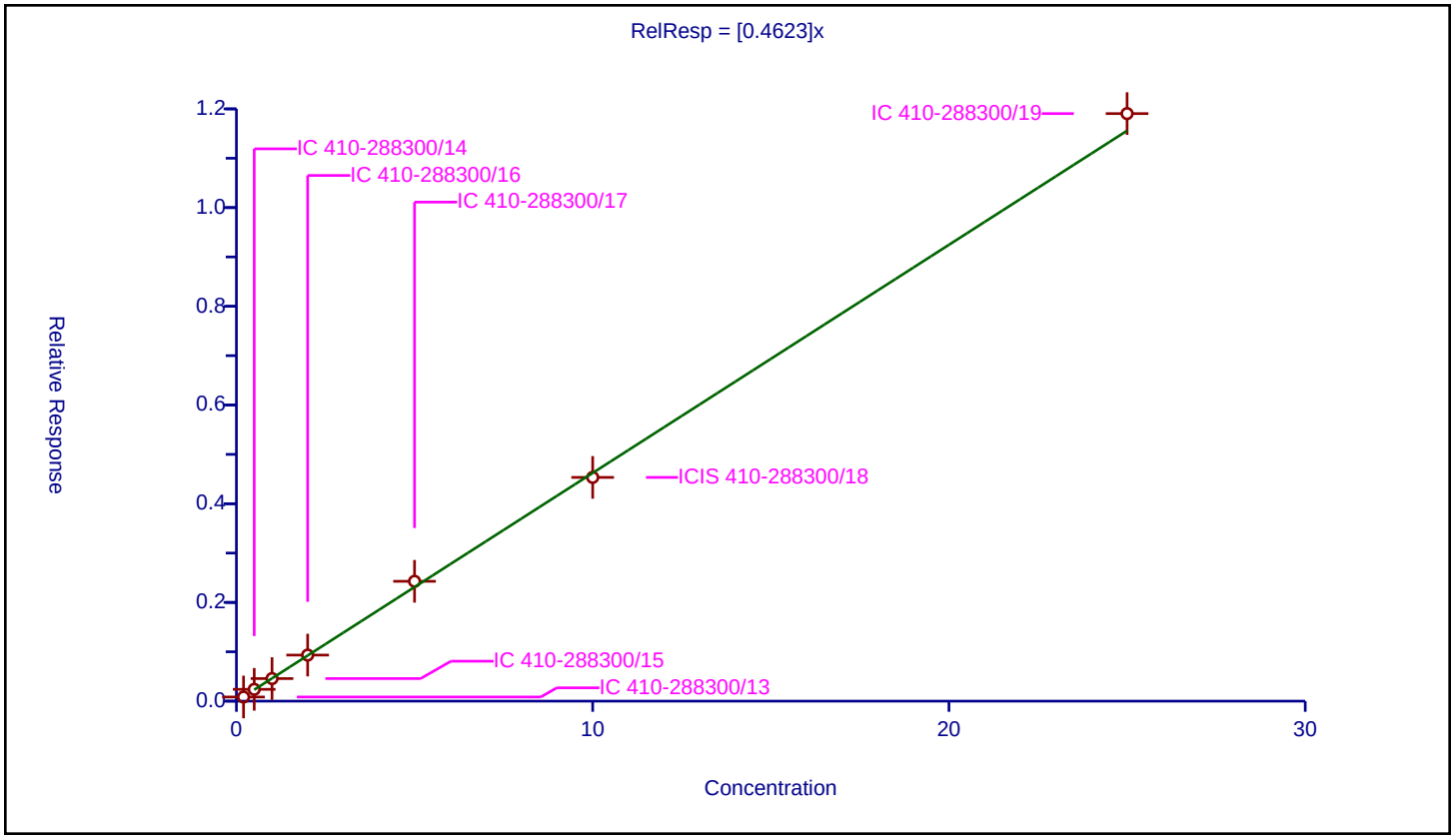
Curve Coefficients

Intercept:	0
Slope:	0.4623

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.083733	10.0	1993587.0	0.418667	Y
2	IC 410-288300/14	0.5	0.239187	10.0	1985770.0	0.478374	Y
3	IC 410-288300/15	1.0	0.457426	10.0	1978464.0	0.457426	Y
4	IC 410-288300/16	2.0	0.933071	10.0	1976130.0	0.466536	Y
5	IC 410-288300/17	5.0	2.428411	10.0	1966718.0	0.485682	Y
6	ICIS 410-288300/18	10.0	4.533098	10.0	1988424.0	0.45331	Y
7	IC 410-288300/19	25.0	11.90462	10.0	2013656.0	0.476185	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

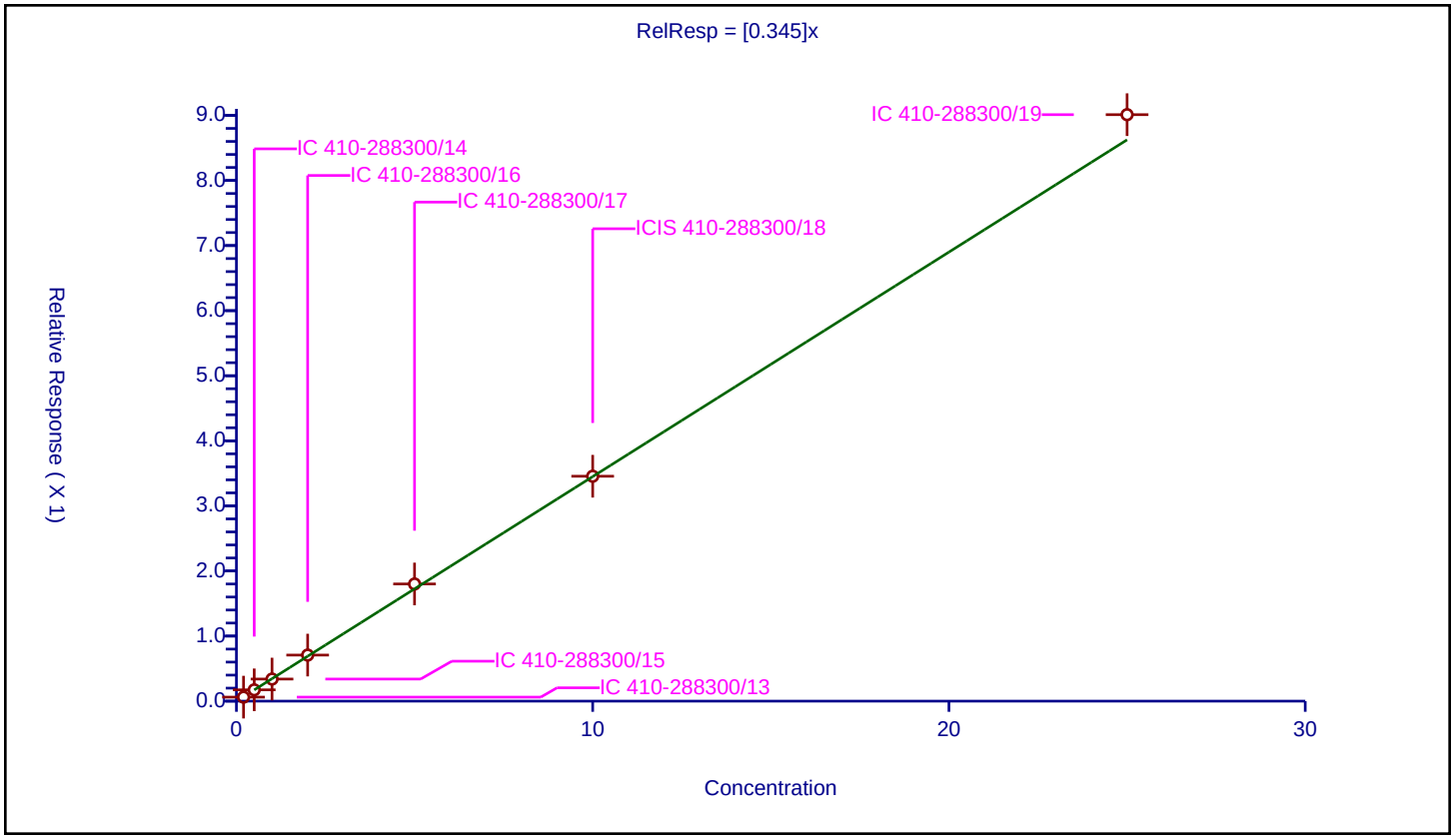
Curve Coefficients

Intercept:	0
Slope:	0.345

Error Coefficients

Standard Error:	808000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.061598	10.0	1993587.0	0.307988	Y
2	IC 410-288300/14	0.5	0.173842	10.0	1985770.0	0.347684	Y
3	IC 410-288300/15	1.0	0.339359	10.0	1978464.0	0.339359	Y
4	IC 410-288300/16	2.0	0.707686	10.0	1976130.0	0.353843	Y
5	IC 410-288300/17	5.0	1.800385	10.0	1966718.0	0.360077	Y
6	ICIS 410-288300/18	10.0	3.455681	10.0	1988424.0	0.345568	Y
7	IC 410-288300/19	25.0	9.011132	10.0	2013656.0	0.360445	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

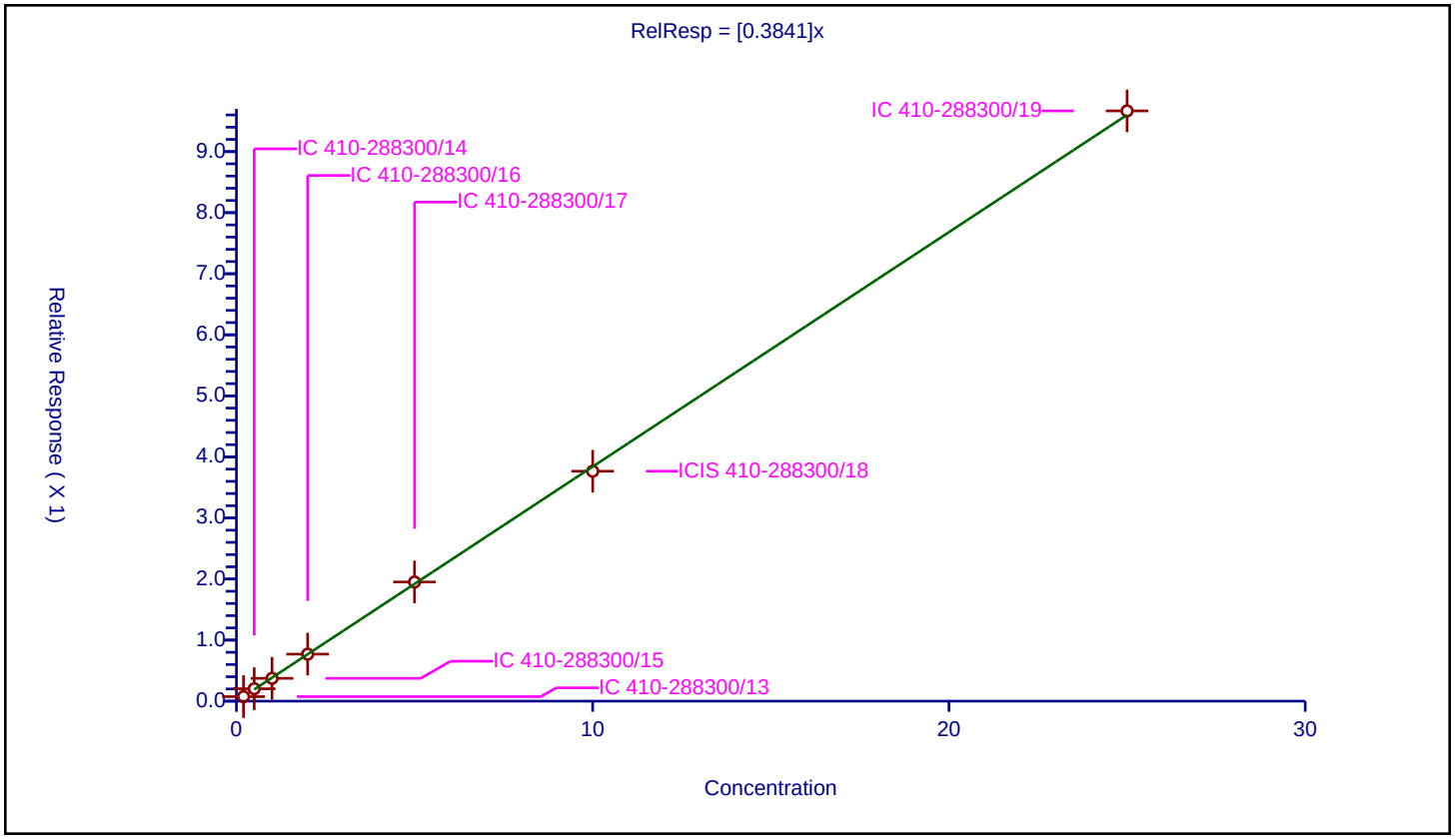
Curve Coefficients

Intercept:	0
Slope:	0.3841

Error Coefficients

Standard Error:	869000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.074123	10.0	1993587.0	0.370613	Y
2	IC 410-288300/14	0.5	0.203004	10.0	1985770.0	0.406009	Y
3	IC 410-288300/15	1.0	0.373537	10.0	1978464.0	0.373537	Y
4	IC 410-288300/16	2.0	0.769529	10.0	1976130.0	0.384765	Y
5	IC 410-288300/17	5.0	1.951556	10.0	1966718.0	0.390311	Y
6	ICIS 410-288300/18	10.0	3.765635	10.0	1988424.0	0.376564	Y
7	IC 410-288300/19	25.0	9.66686	10.0	2013656.0	0.386674	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

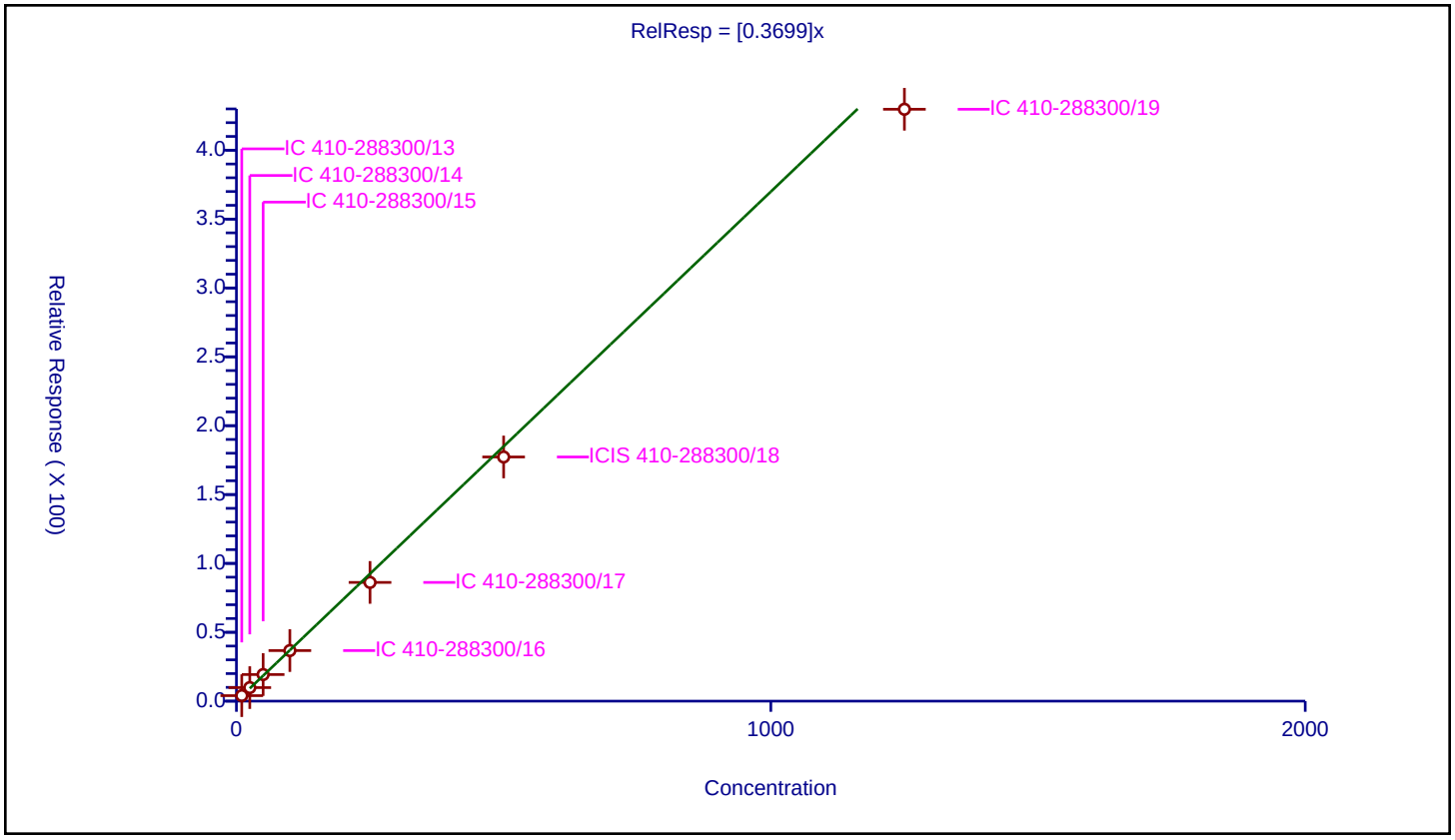
Curve Coefficients

Intercept:	0
Slope:	0.3699

Error Coefficients

Standard Error:	471000
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	3.995827	50.0	136580.0	0.399583	Y
2	IC 410-288300/14	25.0	9.828163	50.0	132044.0	0.393127	Y
3	IC 410-288300/15	50.0	19.317479	50.0	113154.0	0.38635	Y
4	IC 410-288300/16	100.0	36.713385	50.0	117656.0	0.367134	Y
5	IC 410-288300/17	250.0	86.198229	50.0	131878.0	0.344793	Y
6	ICIS 410-288300/18	500.0	177.268767	50.0	129707.0	0.354538	Y
7	IC 410-288300/19	1250.0	429.726277	50.0	119756.0	0.343781	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

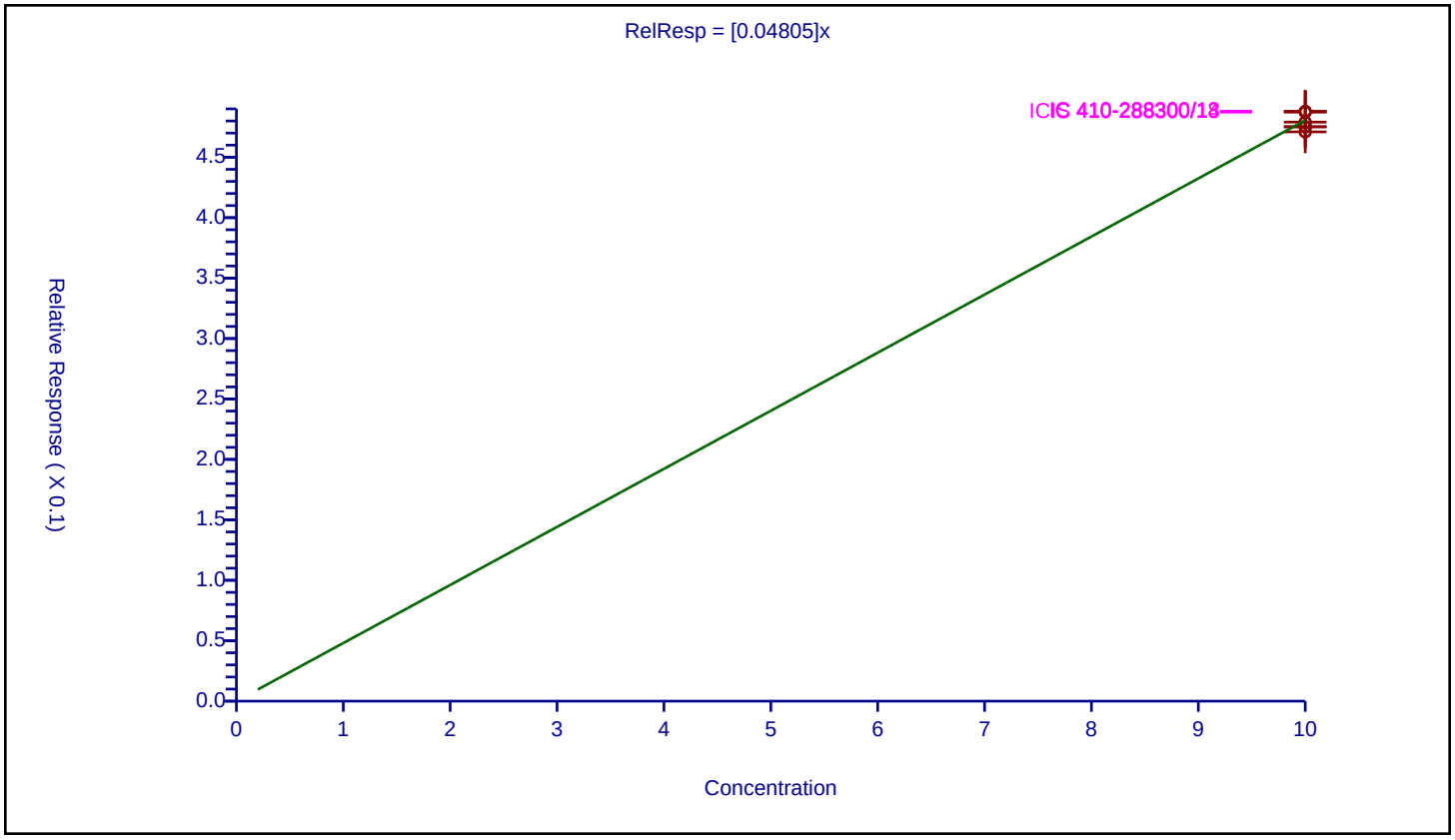
Curve Coefficients

Intercept:	0
Slope:	0.04805

Error Coefficients

Standard Error:	103000
Relative Standard Error:	1.5
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.00000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	0.48801	10.0	1993587.0	0.048801	Y
2	IC 410-288300/14	10.0	0.487418	10.0	1985770.0	0.048742	Y
3	IC 410-288300/15	10.0	0.475222	10.0	1978464.0	0.047522	Y
4	IC 410-288300/16	10.0	0.475151	10.0	1976130.0	0.047515	Y
5	IC 410-288300/17	10.0	0.470978	10.0	1966718.0	0.047098	Y
6	ICIS 410-288300/18	10.0	0.487567	10.0	1988424.0	0.048757	Y
7	IC 410-288300/19	10.0	0.479059	10.0	2013656.0	0.047906	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

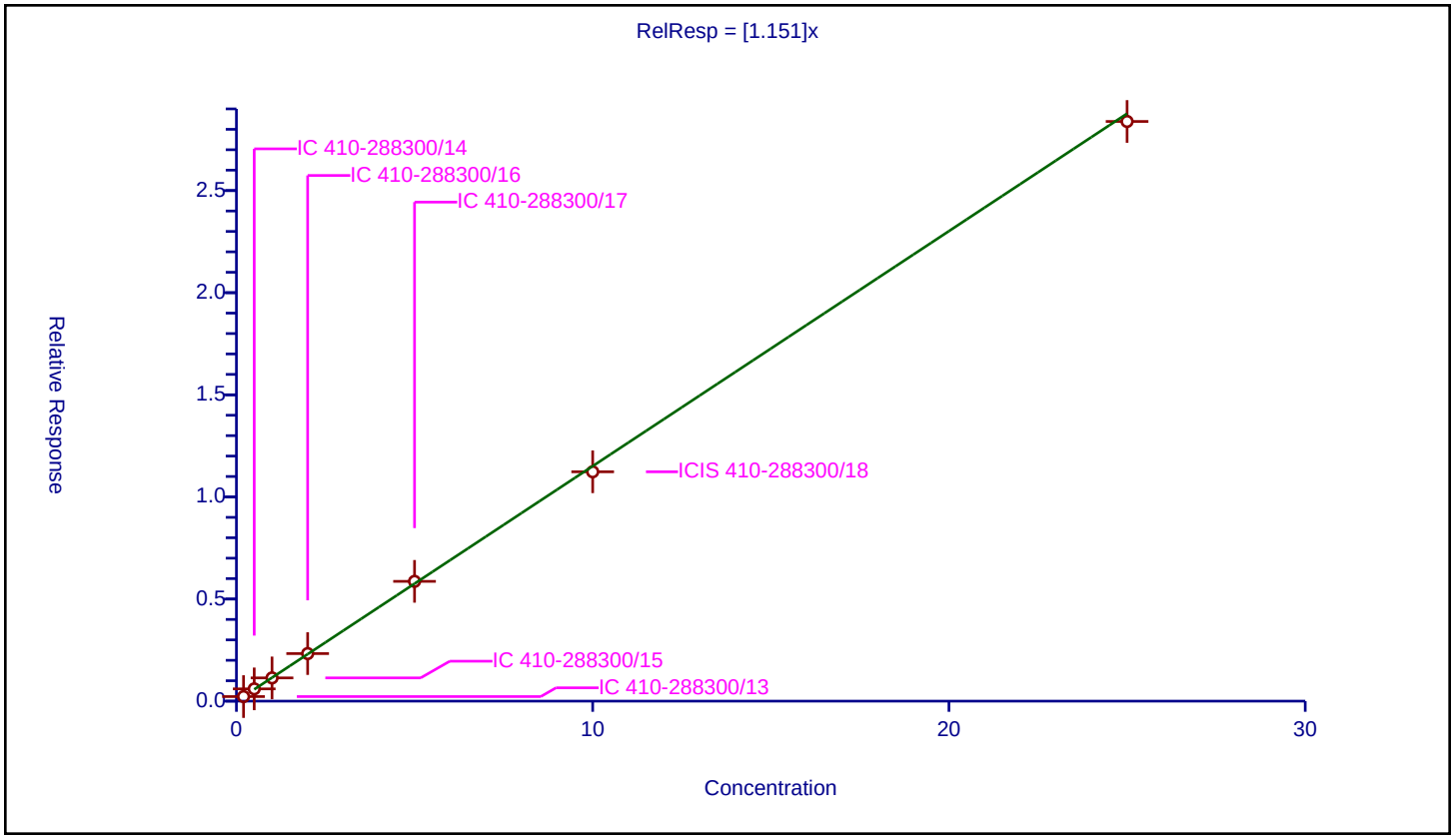
Curve Coefficients

Intercept:	0
Slope:	1.151

Error Coefficients

Standard Error:	2560000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.224063	10.0	1993587.0	1.120317	Y
2	IC 410-288300/14	0.5	0.600739	10.0	1985770.0	1.201479	Y
3	IC 410-288300/15	1.0	1.137514	10.0	1978464.0	1.137514	Y
4	IC 410-288300/16	2.0	2.329138	10.0	1976130.0	1.164569	Y
5	IC 410-288300/17	5.0	5.865869	10.0	1966718.0	1.173174	Y
6	ICIS 410-288300/18	10.0	11.230708	10.0	1988424.0	1.123071	Y
7	IC 410-288300/19	25.0	28.384873	10.0	2013656.0	1.135395	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

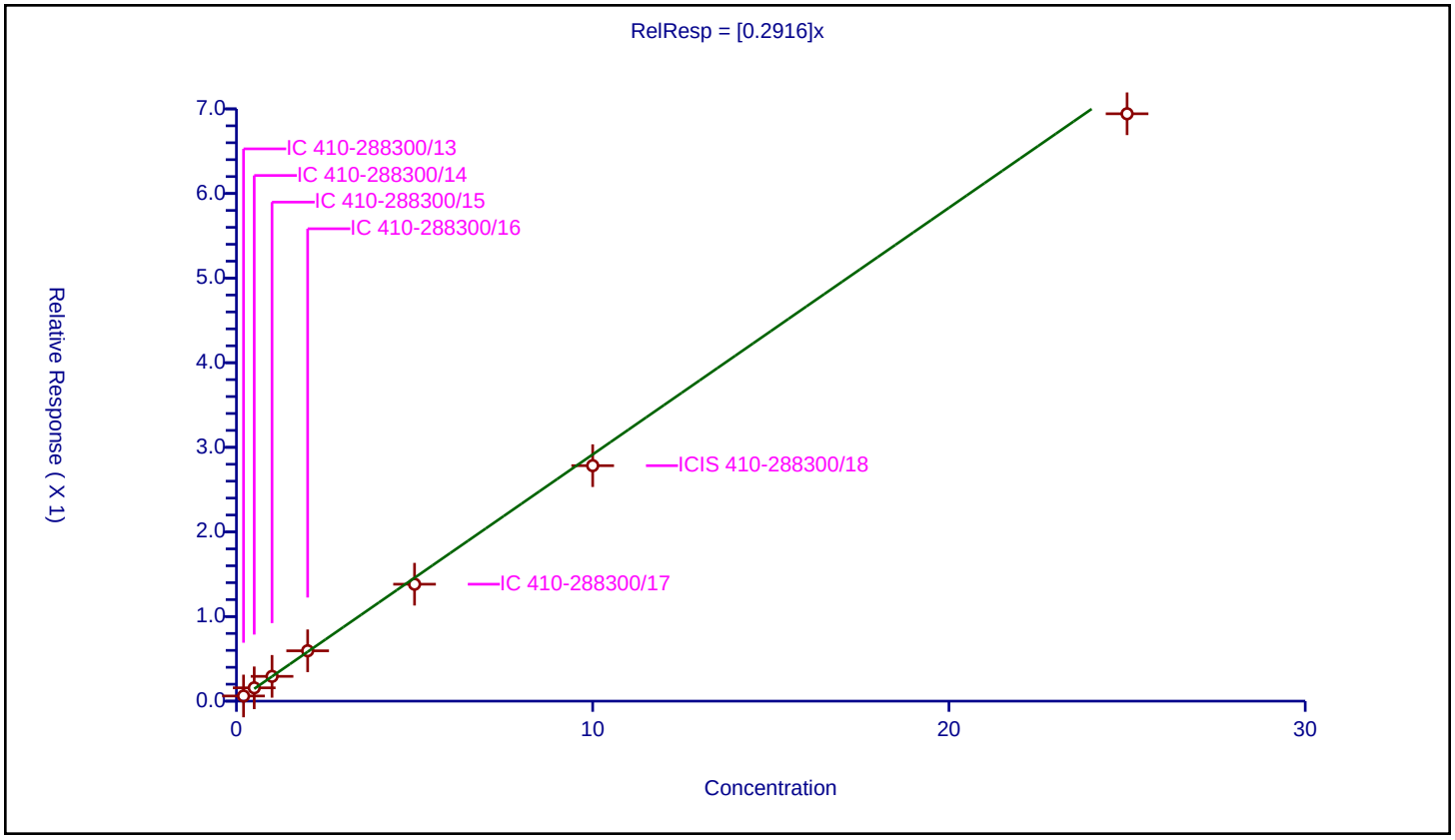
Curve Coefficients

Intercept:	0
Slope:	0.2916

Error Coefficients

Standard Error:	626000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.06076	10.0	1993587.0	0.303799	Y
2	IC 410-288300/14	0.5	0.157168	10.0	1985770.0	0.314337	Y
3	IC 410-288300/15	1.0	0.292798	10.0	1978464.0	0.292798	Y
4	IC 410-288300/16	2.0	0.595148	10.0	1976130.0	0.297574	Y
5	IC 410-288300/17	5.0	1.382023	10.0	1966718.0	0.276405	Y
6	ICIS 410-288300/18	10.0	2.783425	10.0	1988424.0	0.278343	Y
7	IC 410-288300/19	25.0	6.942407	10.0	2013656.0	0.277696	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

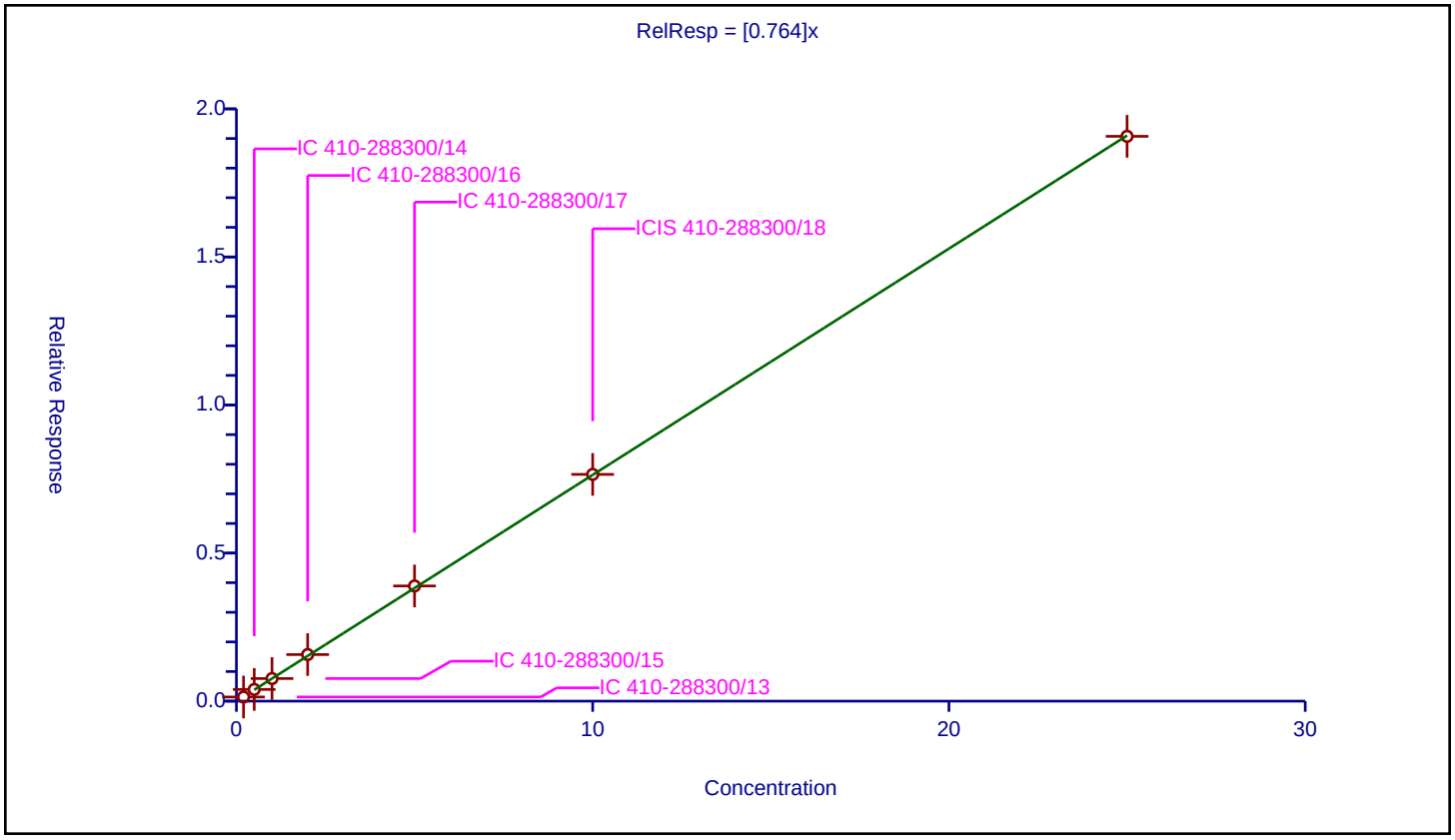
Curve Coefficients

Intercept:	0
Slope:	0.764

Error Coefficients

Standard Error:	1720000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.140205	10.0	1993587.0	0.701023	Y
2	IC 410-288300/14	0.5	0.39562	10.0	1985770.0	0.79124	Y
3	IC 410-288300/15	1.0	0.762915	10.0	1978464.0	0.762915	Y
4	IC 410-288300/16	2.0	1.57265	10.0	1976130.0	0.786325	Y
5	IC 410-288300/17	5.0	3.889663	10.0	1966718.0	0.777933	Y
6	ICIS 410-288300/18	10.0	7.657316	10.0	1988424.0	0.765732	Y
7	IC 410-288300/19	25.0	19.073521	10.0	2013656.0	0.762941	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

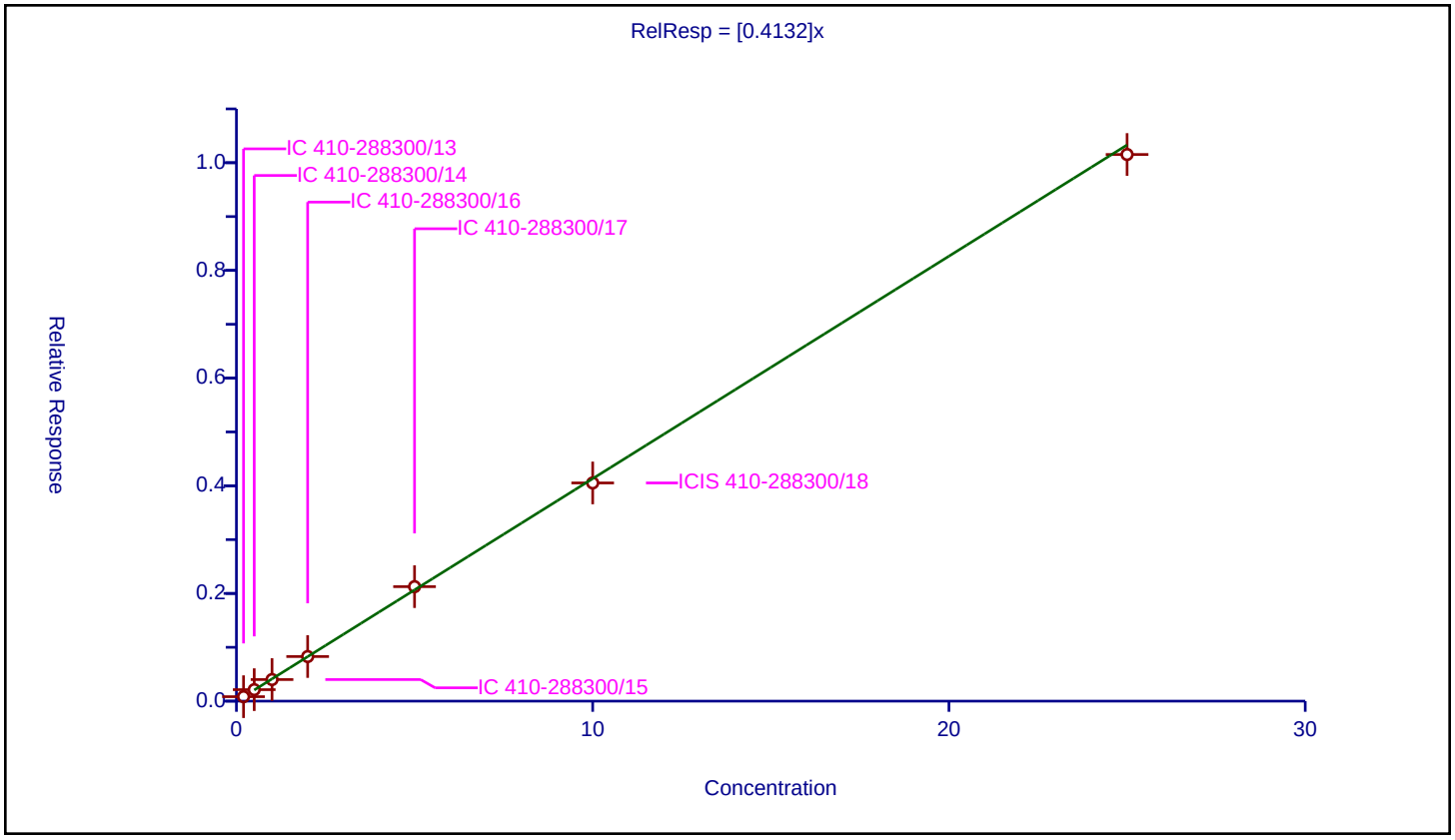
Curve Coefficients

Intercept:	0
Slope:	0.4132

Error Coefficients

Standard Error:	916000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.082851	10.0	1993587.0	0.414253	Y
2	IC 410-288300/14	0.5	0.213227	10.0	1985770.0	0.426454	Y
3	IC 410-288300/15	1.0	0.401074	10.0	1978464.0	0.401074	Y
4	IC 410-288300/16	2.0	0.828149	10.0	1976130.0	0.414074	Y
5	IC 410-288300/17	5.0	2.126334	10.0	1966718.0	0.425267	Y
6	ICIS 410-288300/18	10.0	4.052757	10.0	1988424.0	0.405276	Y
7	IC 410-288300/19	25.0	10.152956	10.0	2013656.0	0.406118	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

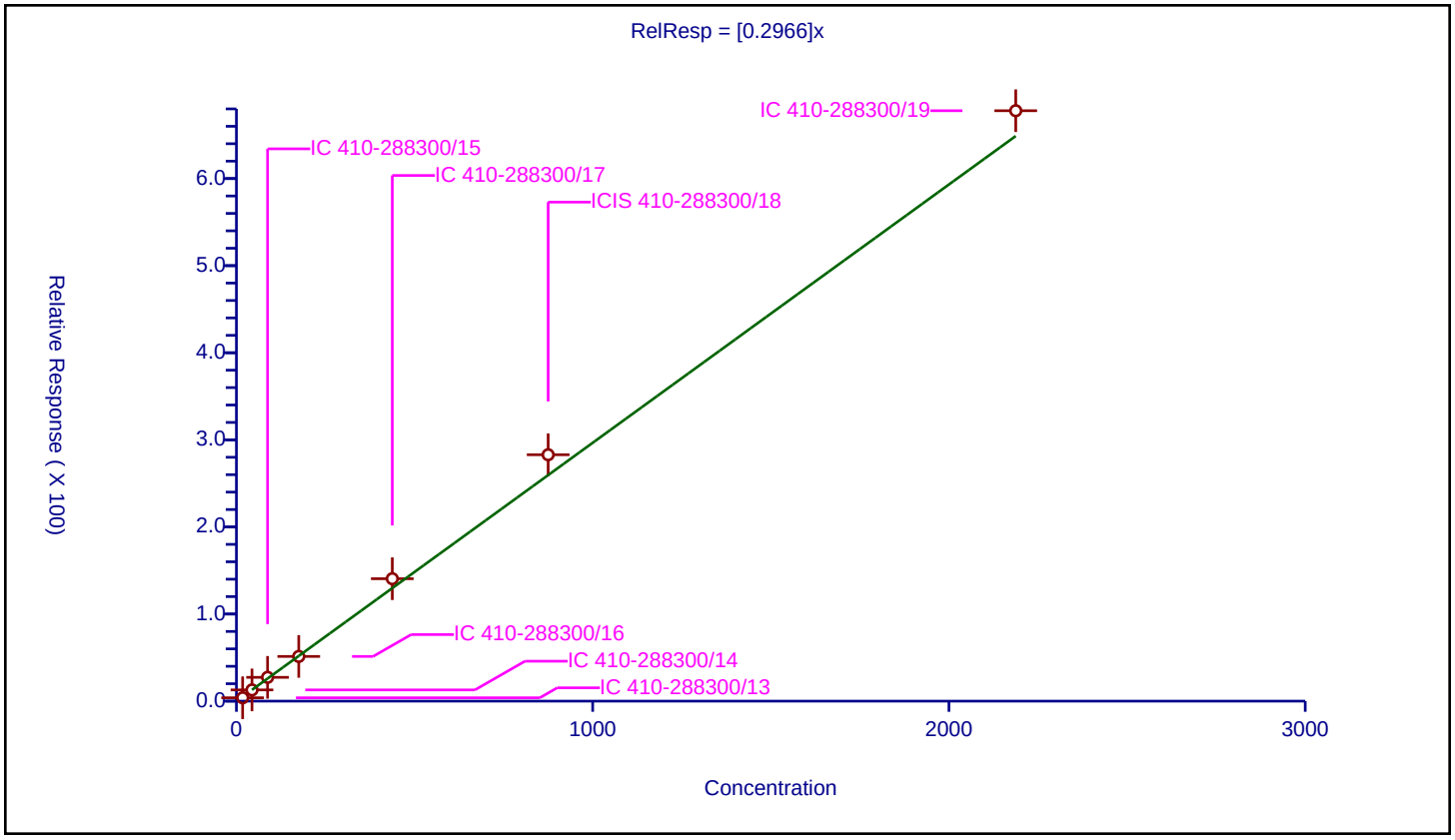
Curve Coefficients

Intercept:	0
Slope:	0.2966

Error Coefficients

Standard Error:	745000
Relative Standard Error:	11.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	17.5	3.877215	50.0	136580.0	0.221555	Y
2	IC 410-288300/14	43.75	12.886992	50.0	132044.0	0.29456	Y
3	IC 410-288300/15	87.5	27.324266	50.0	113154.0	0.312277	Y
4	IC 410-288300/16	175.0	51.331849	50.0	117656.0	0.293325	Y
5	IC 410-288300/17	437.5	140.571589	50.0	131878.0	0.321306	Y
6	ICIS 410-288300/18	875.0	282.908401	50.0	129707.0	0.323324	Y
7	IC 410-288300/19	2187.5	677.879605	50.0	119756.0	0.309888	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

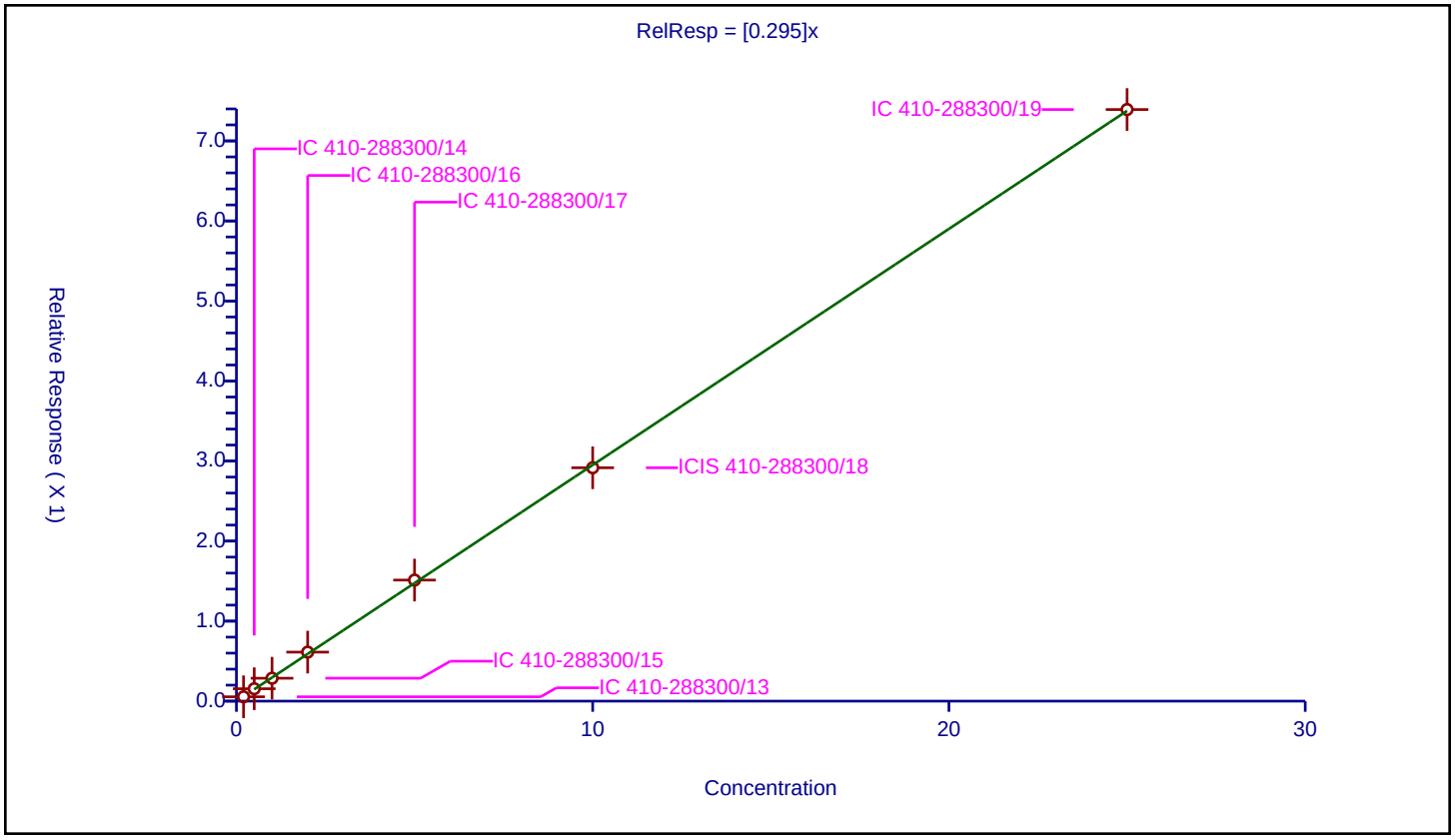
Curve Coefficients

Intercept:	0
Slope:	0.295

Error Coefficients

Standard Error:	666000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.054545	10.0	1993587.0	0.272724	Y
2	IC 410-288300/14	0.5	0.155058	10.0	1985770.0	0.310116	Y
3	IC 410-288300/15	1.0	0.286424	10.0	1978464.0	0.286424	Y
4	IC 410-288300/16	2.0	0.612338	10.0	1976130.0	0.306169	Y
5	IC 410-288300/17	5.0	1.512769	10.0	1966718.0	0.302554	Y
6	ICIS 410-288300/18	10.0	2.916088	10.0	1988424.0	0.291609	Y
7	IC 410-288300/19	25.0	7.391888	10.0	2013656.0	0.295676	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

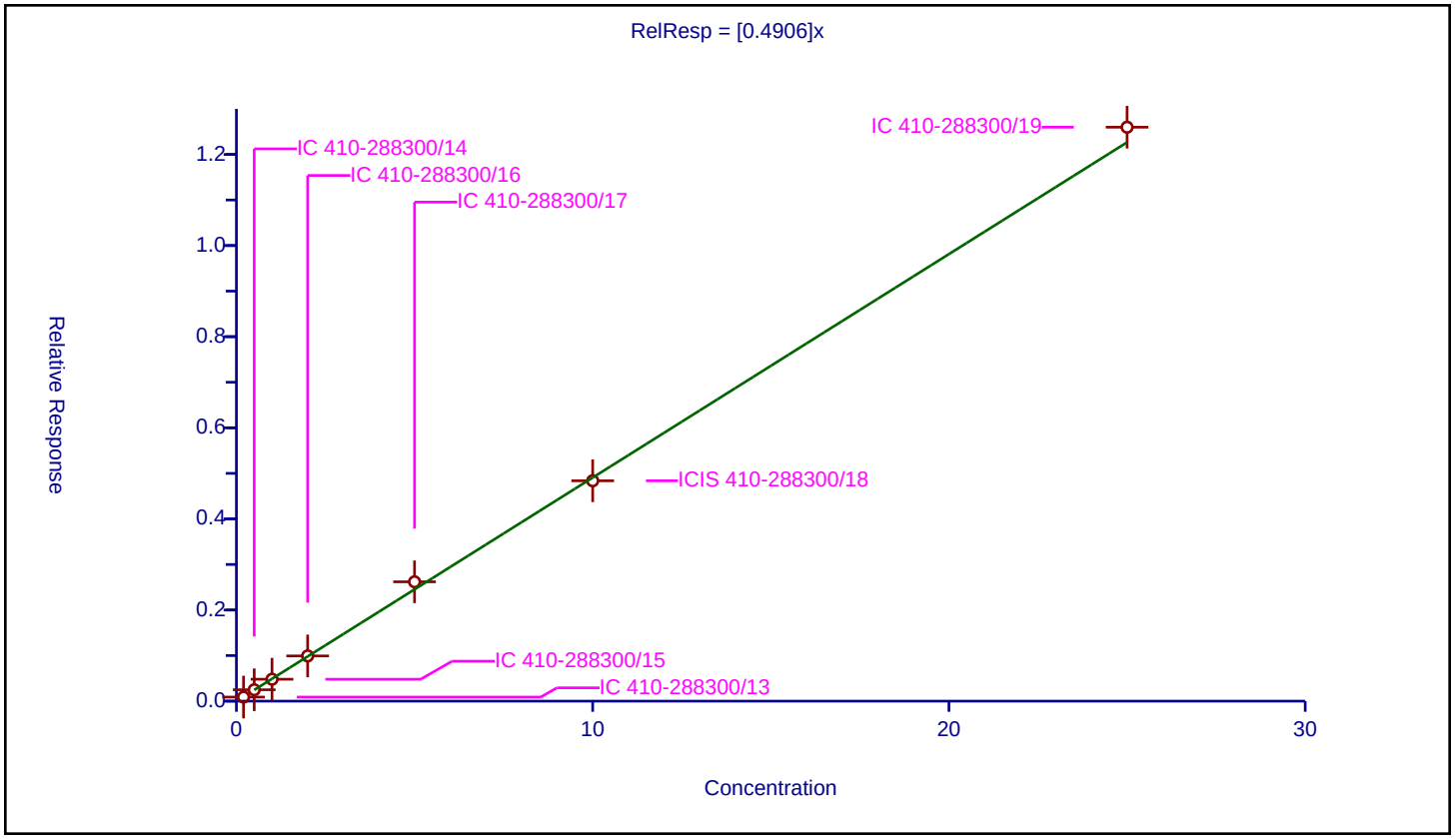
Curve Coefficients

Intercept:	0
Slope:	0.4906

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.089316	10.0	1993587.0	0.446582	Y
2	IC 410-288300/14	0.5	0.249702	10.0	1985770.0	0.499403	Y
3	IC 410-288300/15	1.0	0.480858	10.0	1978464.0	0.480858	Y
4	IC 410-288300/16	2.0	0.992222	10.0	1976130.0	0.496111	Y
5	IC 410-288300/17	5.0	2.619638	10.0	1966718.0	0.523928	Y
6	ICIS 410-288300/18	10.0	4.836841	10.0	1988424.0	0.483684	Y
7	IC 410-288300/19	25.0	12.597688	10.0	2013656.0	0.503908	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

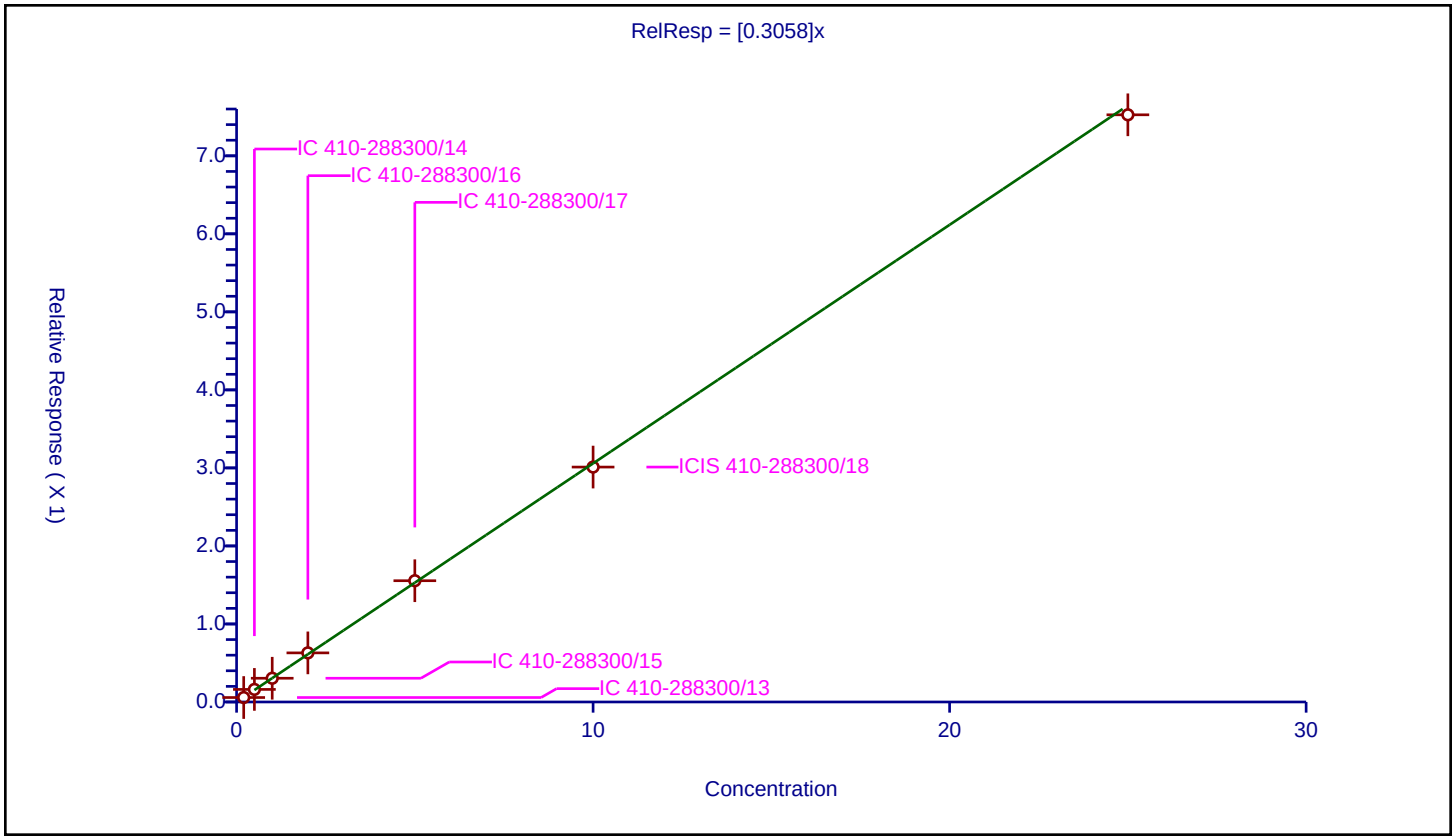
Curve Coefficients

Intercept:	0
Slope:	0.3058

Error Coefficients

Standard Error:	679000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.057173	10.0	1993587.0	0.285867	Y
2	IC 410-288300/14	0.5	0.161262	10.0	1985770.0	0.322525	Y
3	IC 410-288300/15	1.0	0.304463	10.0	1978464.0	0.304463	Y
4	IC 410-288300/16	2.0	0.629447	10.0	1976130.0	0.314724	Y
5	IC 410-288300/17	5.0	1.554132	10.0	1966718.0	0.310826	Y
6	ICIS 410-288300/18	10.0	3.010912	10.0	1988424.0	0.301091	Y
7	IC 410-288300/19	25.0	7.525819	10.0	2013656.0	0.301033	Y



Calibration / 1,4-Dioxane

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

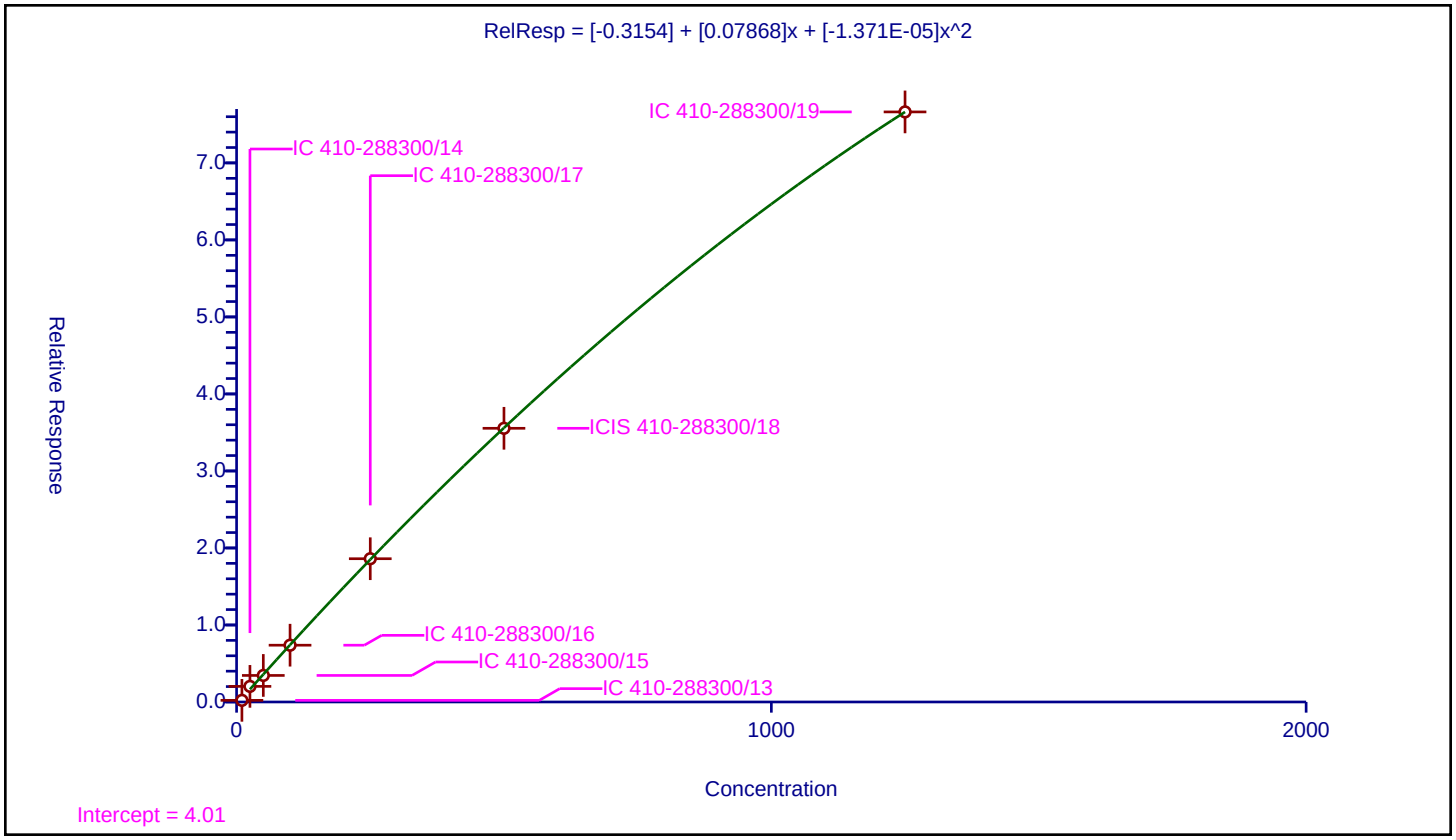
Curve Coefficients

Intercept:	-0.3154
Slope:	0.07868
Second Order:	-1.371E-05

Error Coefficients

Standard Error:	106000
Relative Standard Error:	19.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	0.21416	50.0	136580.0	0.021416	Y
2	IC 410-288300/14	25.0	2.026976	50.0	132044.0	0.081079	Y
3	IC 410-288300/15	50.0	3.445747	50.0	113154.0	0.068915	Y
4	IC 410-288300/16	100.0	7.37234	50.0	117656.0	0.073723	Y
5	IC 410-288300/17	250.0	18.605454	50.0	131878.0	0.074422	Y
6	ICIS 410-288300/18	500.0	35.539331	50.0	129707.0	0.071079	Y
7	IC 410-288300/19	1250.0	76.624136	50.0	119756.0	0.061299	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

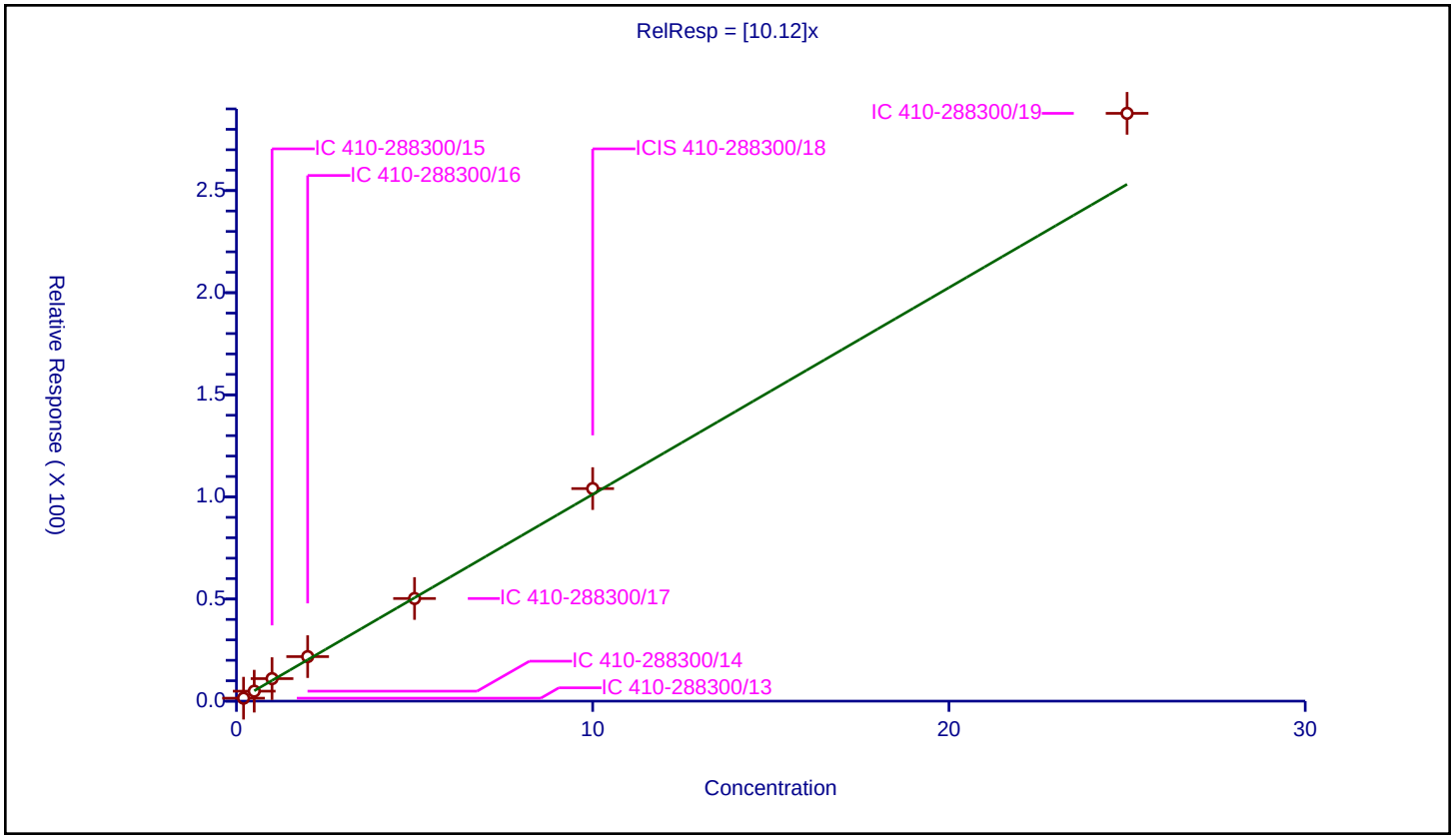
Curve Coefficients

Intercept:	0
Slope:	10.12

Error Coefficients

Standard Error:	308000
Relative Standard Error:	14.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	1.441646	50.0	136580.0	7.20823	Y
2	IC 410-288300/14	0.5	4.882842	50.0	132044.0	9.765684	Y
3	IC 410-288300/15	1.0	11.022147	50.0	113154.0	11.022147	Y
4	IC 410-288300/16	2.0	21.799143	50.0	117656.0	10.899572	Y
5	IC 410-288300/17	5.0	50.256297	50.0	131878.0	10.051259	Y
6	ICIS 410-288300/18	10.0	104.07611	50.0	129707.0	10.407611	Y
7	IC 410-288300/19	25.0	287.82775	50.0	119756.0	11.51311	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

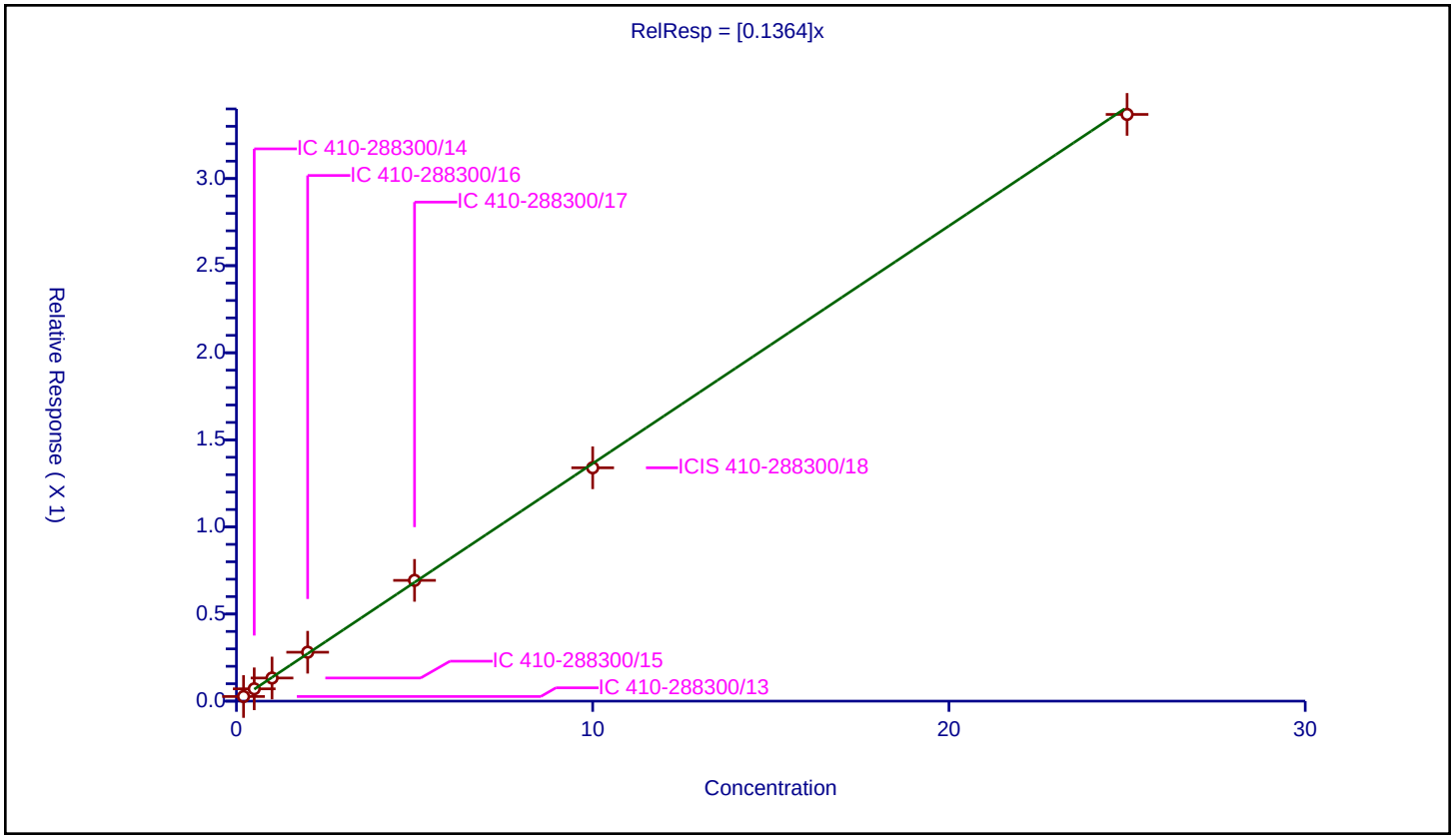
Curve Coefficients

Intercept:	0
Slope:	0.1364

Error Coefficients

Standard Error:	304000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.02655	10.0	1993587.0	0.132751	Y
2	IC 410-288300/14	0.5	0.070728	10.0	1985770.0	0.141456	Y
3	IC 410-288300/15	1.0	0.13283	10.0	1978464.0	0.13283	Y
4	IC 410-288300/16	2.0	0.280867	10.0	1976130.0	0.140434	Y
5	IC 410-288300/17	5.0	0.693323	10.0	1966718.0	0.138665	Y
6	ICIS 410-288300/18	10.0	1.339589	10.0	1988424.0	0.133959	Y
7	IC 410-288300/19	25.0	3.368376	10.0	2013656.0	0.134735	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

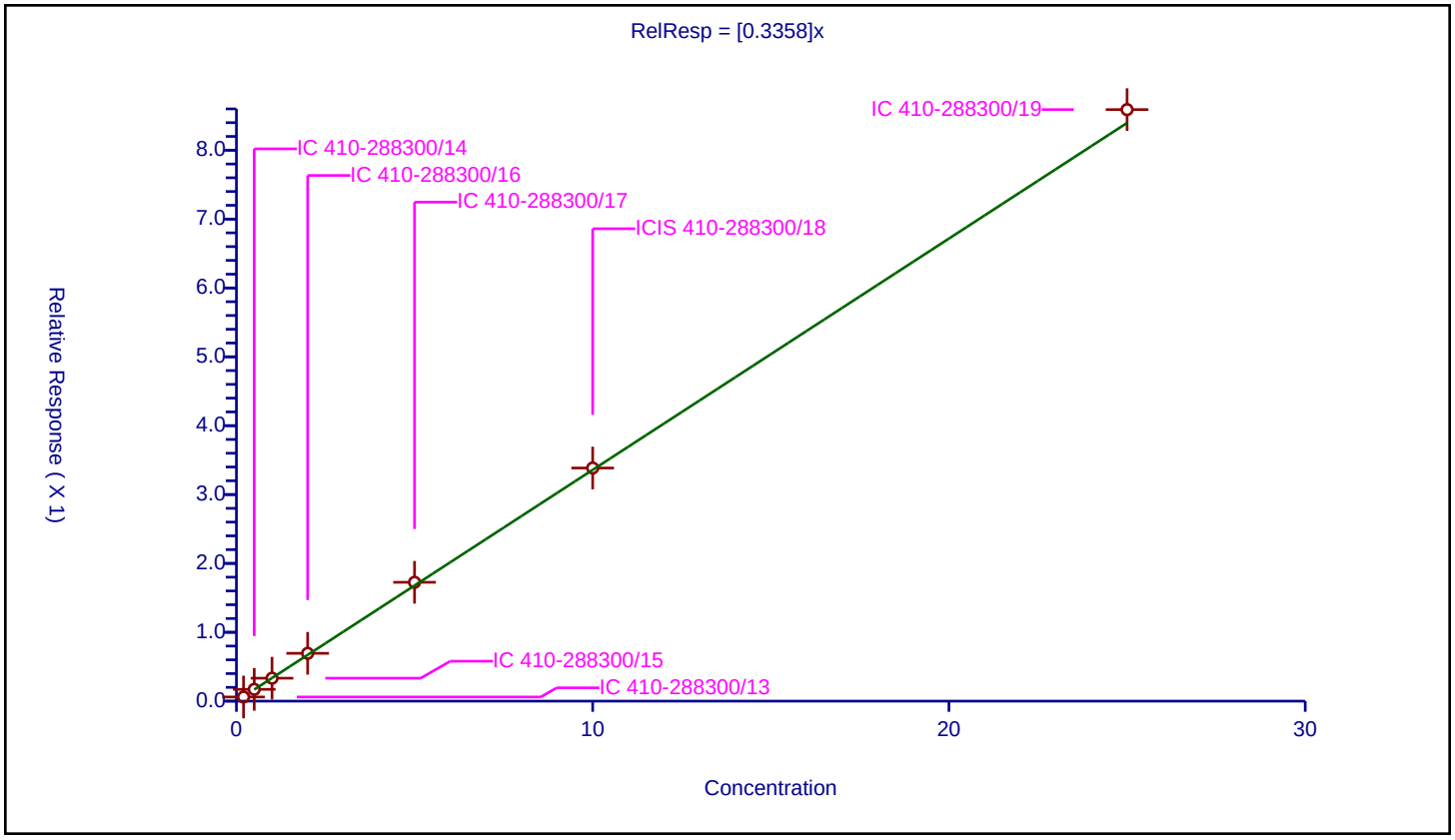
Curve Coefficients

Intercept:	0
Slope:	0.3358

Error Coefficients

Standard Error:	773000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.060228	10.0	1993587.0	0.301141	Y
2	IC 410-288300/14	0.5	0.171178	10.0	1985770.0	0.342356	Y
3	IC 410-288300/15	1.0	0.332996	10.0	1978464.0	0.332996	Y
4	IC 410-288300/16	2.0	0.694312	10.0	1976130.0	0.347156	Y
5	IC 410-288300/17	5.0	1.725967	10.0	1966718.0	0.345193	Y
6	ICIS 410-288300/18	10.0	3.385068	10.0	1988424.0	0.338507	Y
7	IC 410-288300/19	25.0	8.589486	10.0	2013656.0	0.343579	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

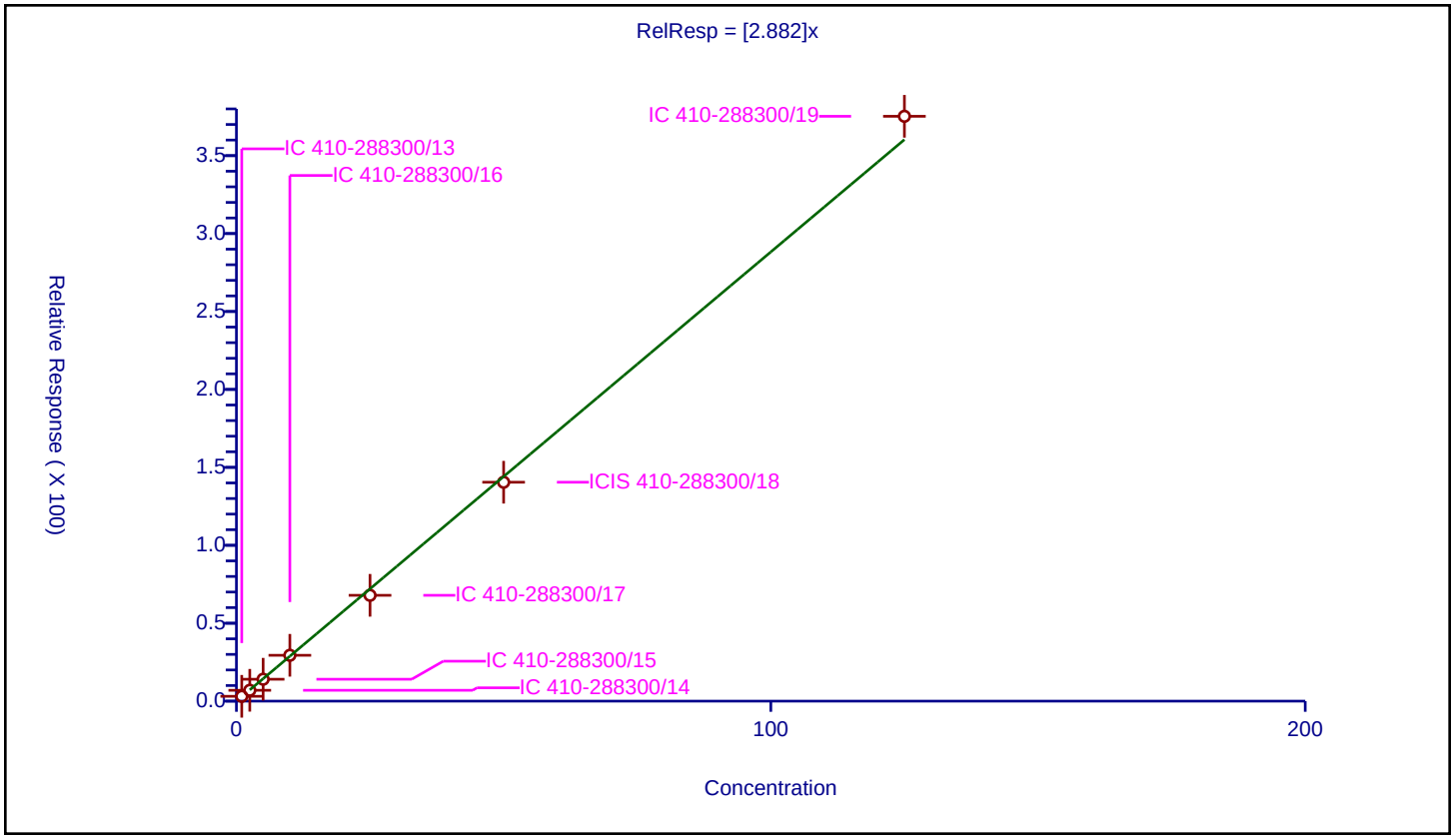
Curve Coefficients

Intercept:	0
Slope:	2.882

Error Coefficients

Standard Error:	404000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	1.0	3.109899	50.0	136580.0	3.109899	Y
2	IC 410-288300/14	2.5	6.970404	50.0	132044.0	2.788162	Y
3	IC 410-288300/15	5.0	14.048553	50.0	113154.0	2.809711	Y
4	IC 410-288300/16	10.0	29.412865	50.0	117656.0	2.941286	Y
5	IC 410-288300/17	25.0	67.896844	50.0	131878.0	2.715874	Y
6	ICIS 410-288300/18	50.0	140.45464	50.0	129707.0	2.809093	Y
7	IC 410-288300/19	125.0	375.246752	50.0	119756.0	3.001974	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

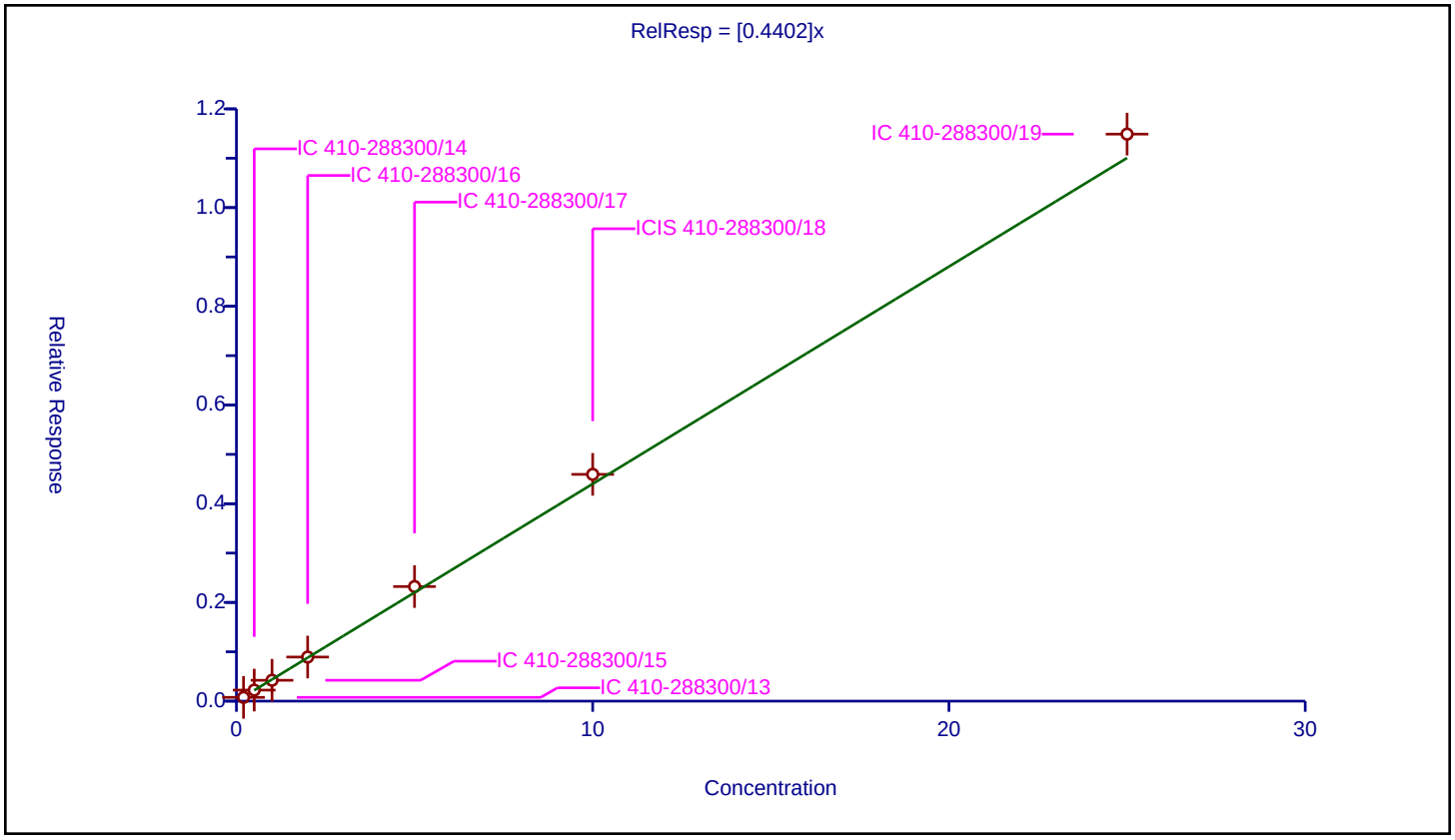
Curve Coefficients

Intercept:	0
Slope:	0.4402

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.07639	10.0	1993587.0	0.38195	Y
2	IC 410-288300/14	0.5	0.223445	10.0	1985770.0	0.44689	Y
3	IC 410-288300/15	1.0	0.422636	10.0	1978464.0	0.422636	Y
4	IC 410-288300/16	2.0	0.893534	10.0	1976130.0	0.446767	Y
5	IC 410-288300/17	5.0	2.321655	10.0	1966718.0	0.464331	Y
6	ICIS 410-288300/18	10.0	4.595001	10.0	1988424.0	0.4595	Y
7	IC 410-288300/19	25.0	11.489177	10.0	2013656.0	0.459567	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

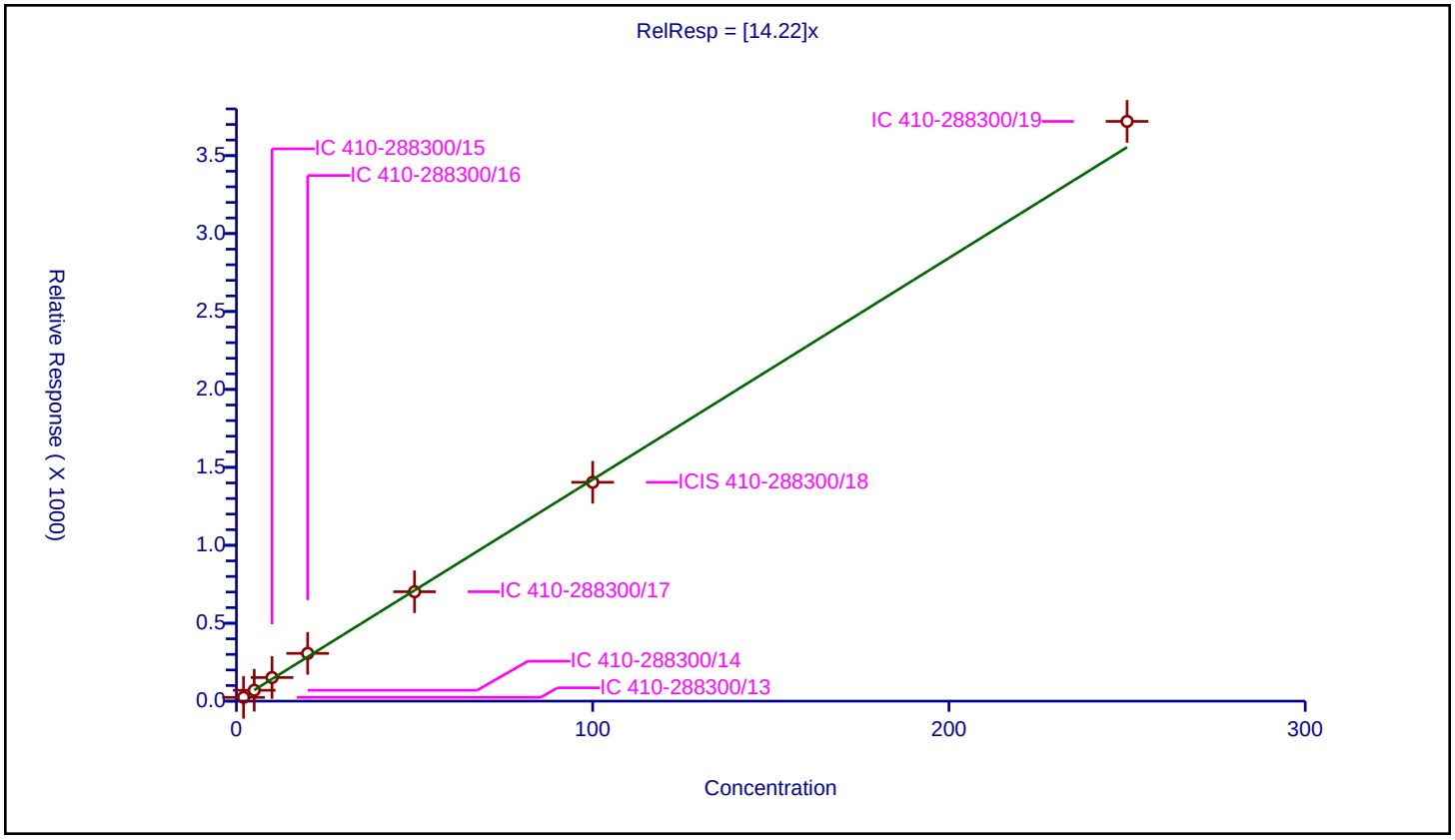
Curve Coefficients

Intercept:	0
Slope:	14.22

Error Coefficients

Standard Error:	4010000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	2.0	24.235247	50.0	136580.0	12.117623	Y
2	IC 410-288300/14	5.0	69.841871	50.0	132044.0	13.968374	Y
3	IC 410-288300/15	10.0	151.415328	50.0	113154.0	15.141533	Y
4	IC 410-288300/16	20.0	306.550452	50.0	117656.0	15.327523	Y
5	IC 410-288300/17	50.0	701.978344	50.0	131878.0	14.039567	Y
6	ICIS 410-288300/18	100.0	1404.135475	50.0	129707.0	14.041355	Y
7	IC 410-288300/19	250.0	3719.882094	50.0	119756.0	14.879528	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

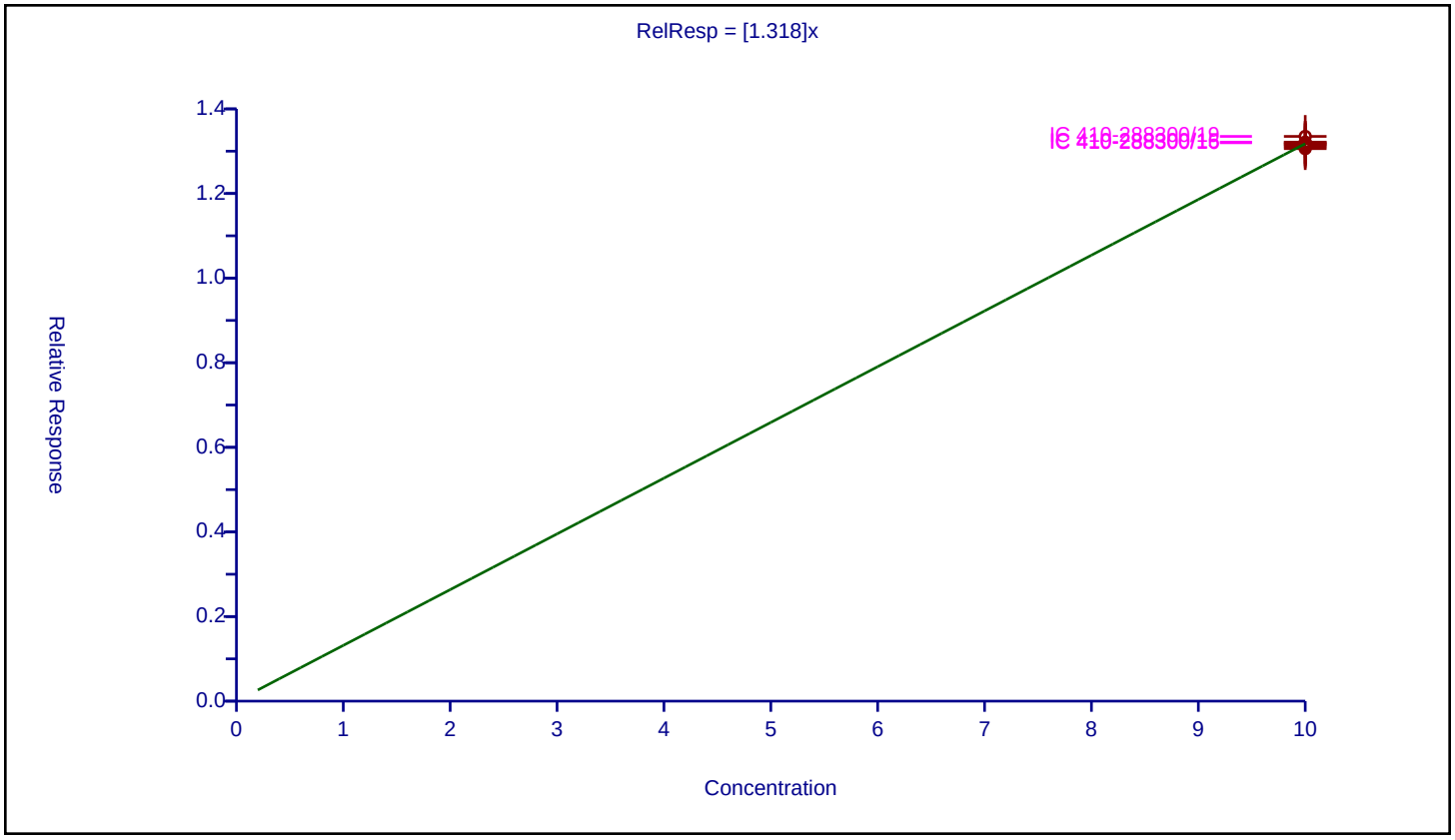
Curve Coefficients

Intercept:	0
Slope:	1.318

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	0.7
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	13.104591	10.0	1542113.0	1.310459	Y
2	IC 410-288300/14	10.0	13.059751	10.0	1536465.0	1.305975	Y
3	IC 410-288300/15	10.0	13.214526	10.0	1510198.0	1.321453	Y
4	IC 410-288300/16	10.0	13.199246	10.0	1510978.0	1.319925	Y
5	IC 410-288300/17	10.0	13.144632	10.0	1523078.0	1.314463	Y
6	ICIS 410-288300/18	10.0	13.164422	10.0	1523479.0	1.316442	Y
7	IC 410-288300/19	10.0	13.349615	10.0	1542455.0	1.334961	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

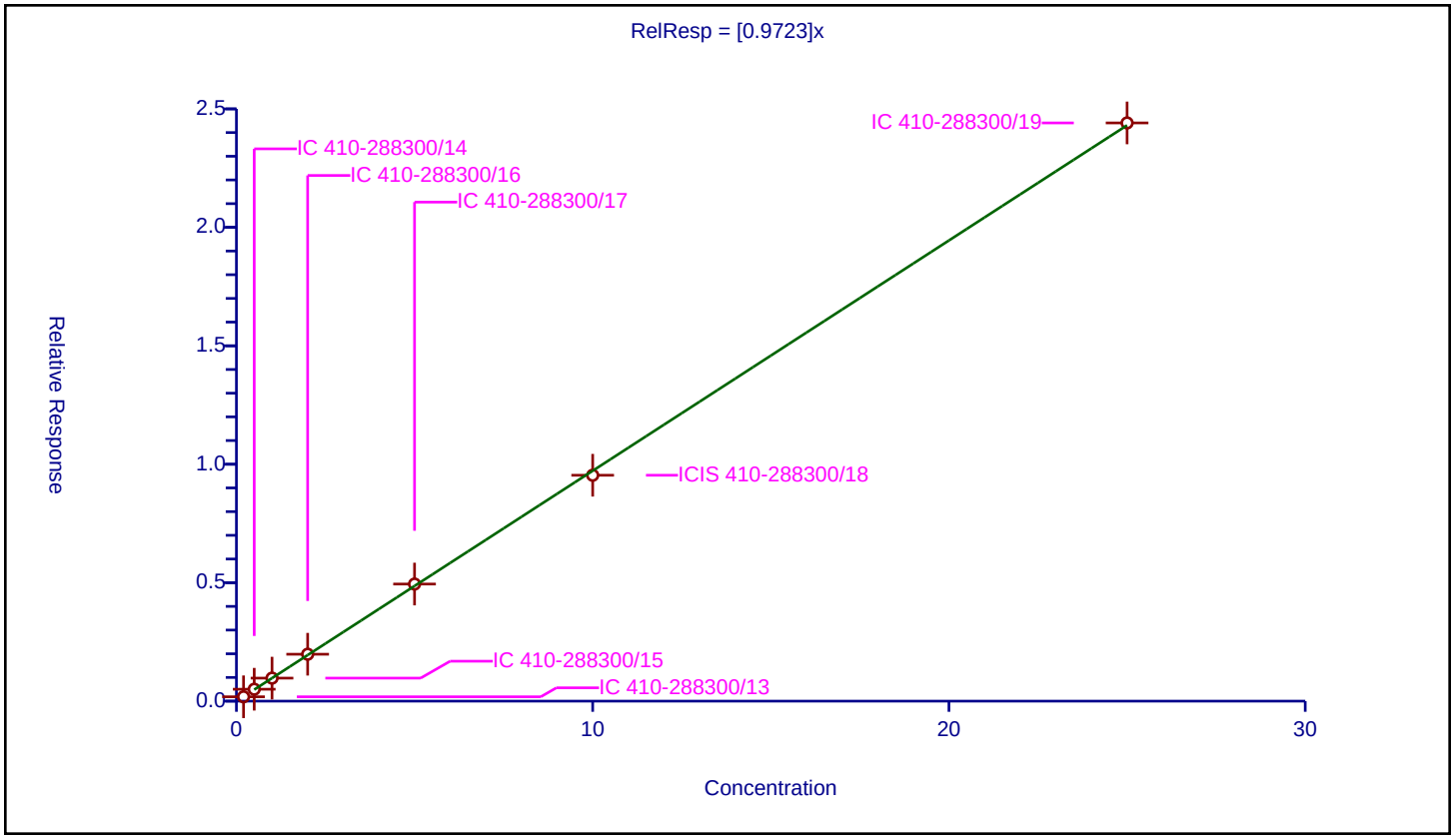
Curve Coefficients

Intercept:	0
Slope:	0.9723

Error Coefficients

Standard Error:	1680000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.18391	10.0	1542113.0	0.91955	Y
2	IC 410-288300/14	0.5	0.502849	10.0	1536465.0	1.005698	Y
3	IC 410-288300/15	1.0	0.97229	10.0	1510198.0	0.97229	Y
4	IC 410-288300/16	2.0	1.980538	10.0	1510978.0	0.990269	Y
5	IC 410-288300/17	5.0	4.942879	10.0	1523078.0	0.988576	Y
6	ICIS 410-288300/18	10.0	9.535399	10.0	1523479.0	0.95354	Y
7	IC 410-288300/19	25.0	24.407701	10.0	1542455.0	0.976308	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

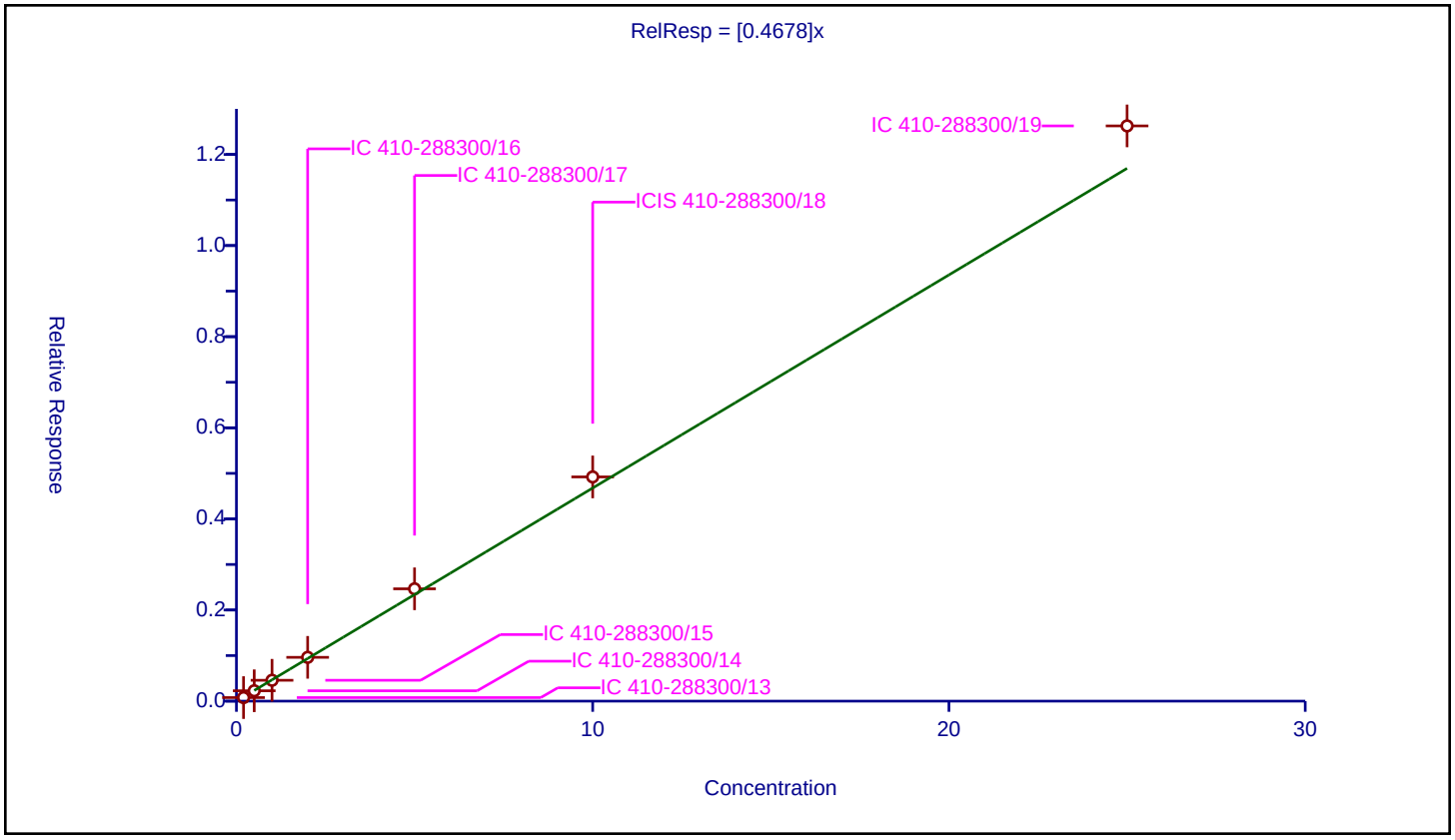
Curve Coefficients

Intercept:	0
Slope:	0.4678

Error Coefficients

Standard Error:	868000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.078029	10.0	1542113.0	0.390147	Y
2	IC 410-288300/14	0.5	0.227789	10.0	1536465.0	0.455578	Y
3	IC 410-288300/15	1.0	0.45788	10.0	1510198.0	0.45788	Y
4	IC 410-288300/16	2.0	0.961252	10.0	1510978.0	0.480626	Y
5	IC 410-288300/17	5.0	2.465435	10.0	1523078.0	0.493087	Y
6	ICIS 410-288300/18	10.0	4.921781	10.0	1523479.0	0.492178	Y
7	IC 410-288300/19	25.0	12.626618	10.0	1542455.0	0.505065	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

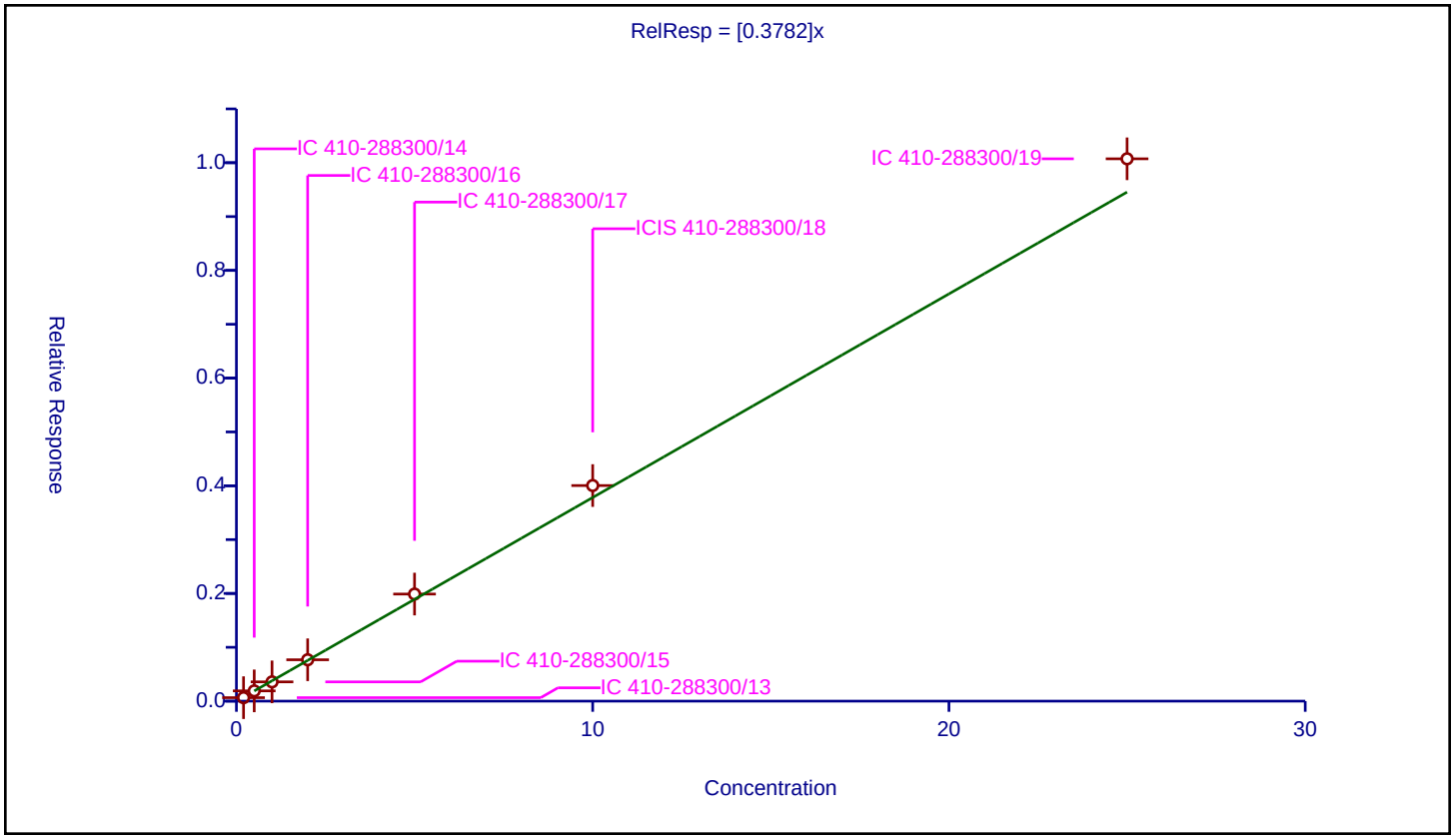
Curve Coefficients

Intercept:	0
Slope:	0.3782

Error Coefficients

Standard Error:	695000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.064632	10.0	1542113.0	0.32316	Y
2	IC 410-288300/14	0.5	0.190463	10.0	1536465.0	0.380926	Y
3	IC 410-288300/15	1.0	0.357834	10.0	1510198.0	0.357834	Y
4	IC 410-288300/16	2.0	0.768595	10.0	1510978.0	0.384297	Y
5	IC 410-288300/17	5.0	1.988966	10.0	1523078.0	0.397793	Y
6	ICIS 410-288300/18	10.0	4.004374	10.0	1523479.0	0.400437	Y
7	IC 410-288300/19	25.0	10.072819	10.0	1542455.0	0.402913	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

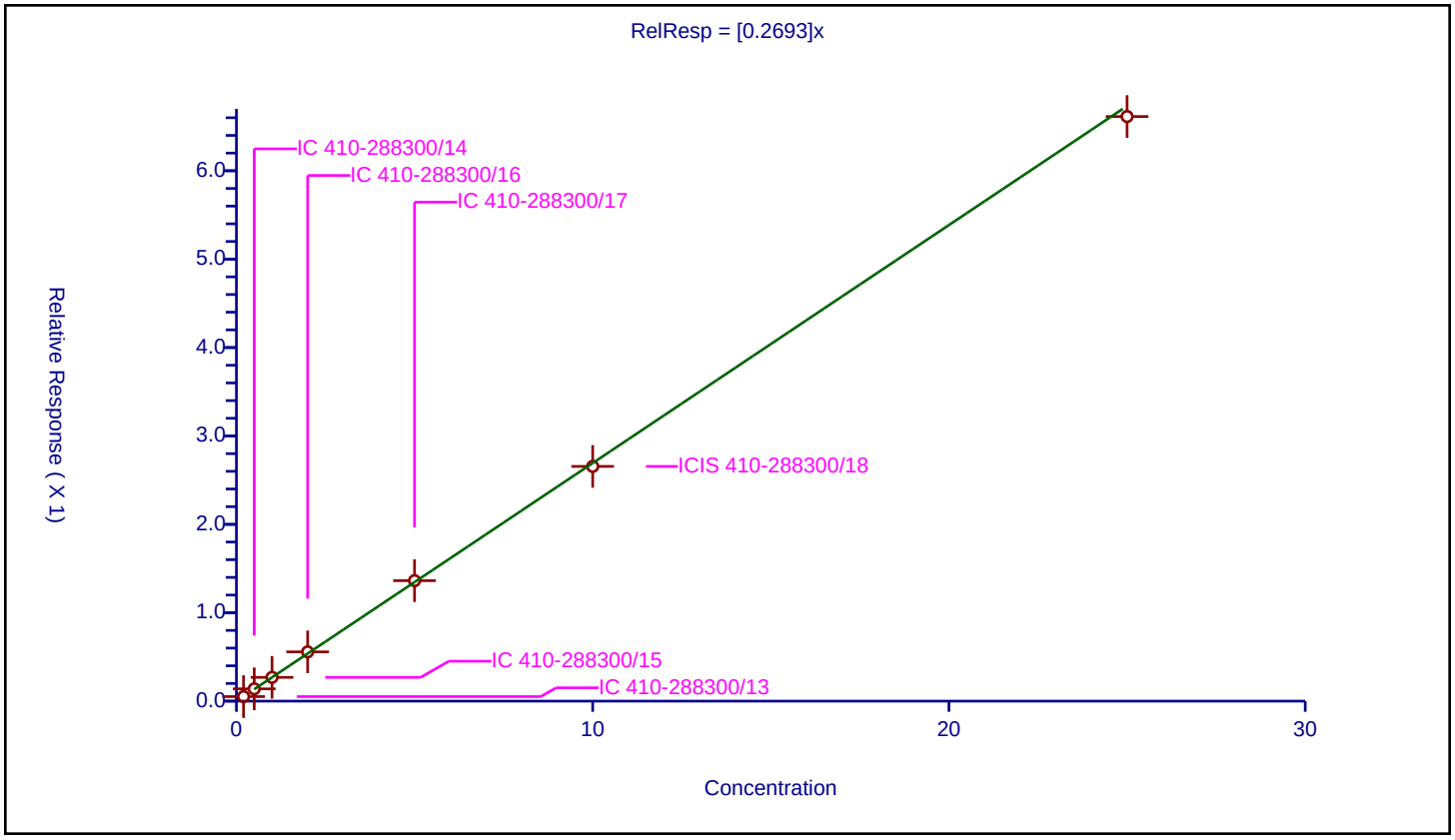
Curve Coefficients

Intercept:	0
Slope:	0.2693

Error Coefficients

Standard Error:	458000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.051306	10.0	1542113.0	0.256531	Y
2	IC 410-288300/14	0.5	0.139112	10.0	1536465.0	0.278223	Y
3	IC 410-288300/15	1.0	0.269018	10.0	1510198.0	0.269018	Y
4	IC 410-288300/16	2.0	0.557321	10.0	1510978.0	0.278661	Y
5	IC 410-288300/17	5.0	1.362931	10.0	1523078.0	0.272586	Y
6	ICIS 410-288300/18	10.0	2.65558	10.0	1523479.0	0.265558	Y
7	IC 410-288300/19	25.0	6.61349	10.0	1542455.0	0.26454	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

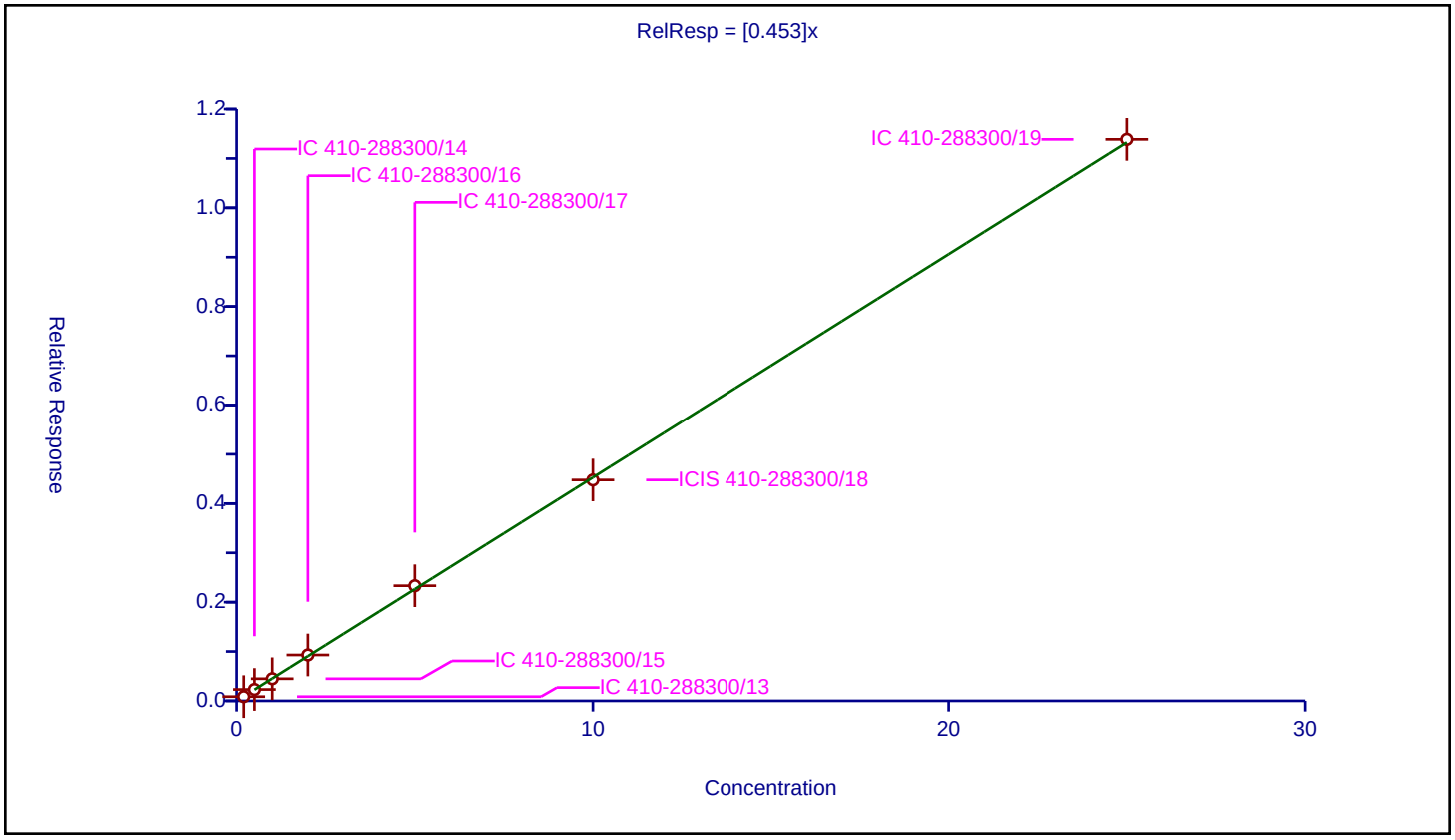
Curve Coefficients

Intercept:	0
Slope:	0.453

Error Coefficients

Standard Error:	786000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.085286	10.0	1542113.0	0.426428	Y
2	IC 410-288300/14	0.5	0.230614	10.0	1536465.0	0.461228	Y
3	IC 410-288300/15	1.0	0.44812	10.0	1510198.0	0.44812	Y
4	IC 410-288300/16	2.0	0.930292	10.0	1510978.0	0.465146	Y
5	IC 410-288300/17	5.0	2.333787	10.0	1523078.0	0.466757	Y
6	ICIS 410-288300/18	10.0	4.478815	10.0	1523479.0	0.447881	Y
7	IC 410-288300/19	25.0	11.38666	10.0	1542455.0	0.455466	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

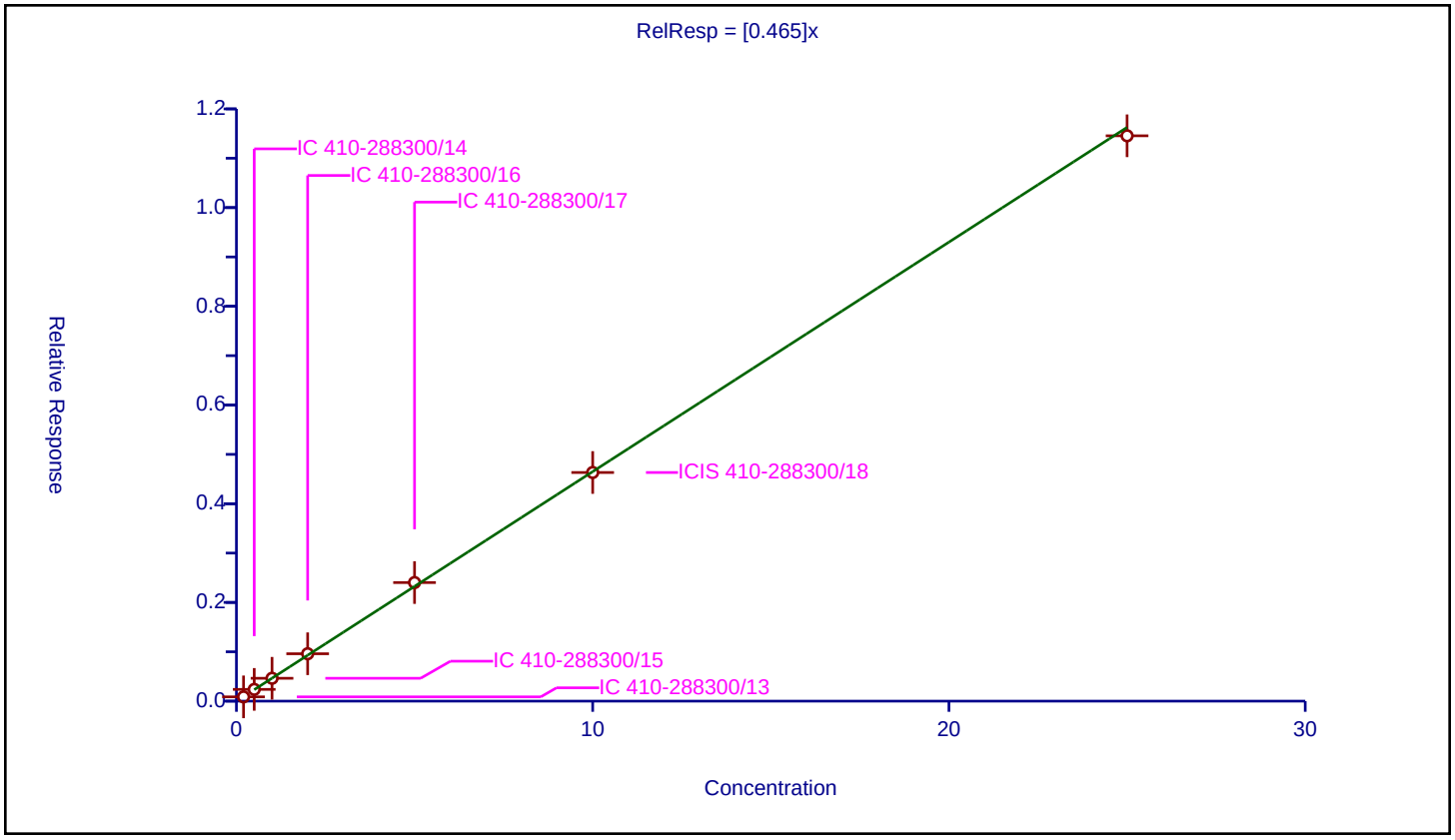
Curve Coefficients

Intercept:	0
Slope:	0.465

Error Coefficients

Standard Error:	794000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.086667	10.0	1542113.0	0.433334	Y
2	IC 410-288300/14	0.5	0.238209	10.0	1536465.0	0.476418	Y
3	IC 410-288300/15	1.0	0.463284	10.0	1510198.0	0.463284	Y
4	IC 410-288300/16	2.0	0.960391	10.0	1510978.0	0.480196	Y
5	IC 410-288300/17	5.0	2.403061	10.0	1523078.0	0.480612	Y
6	ICIS 410-288300/18	10.0	4.632476	10.0	1523479.0	0.463248	Y
7	IC 410-288300/19	25.0	11.455083	10.0	1542455.0	0.458203	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

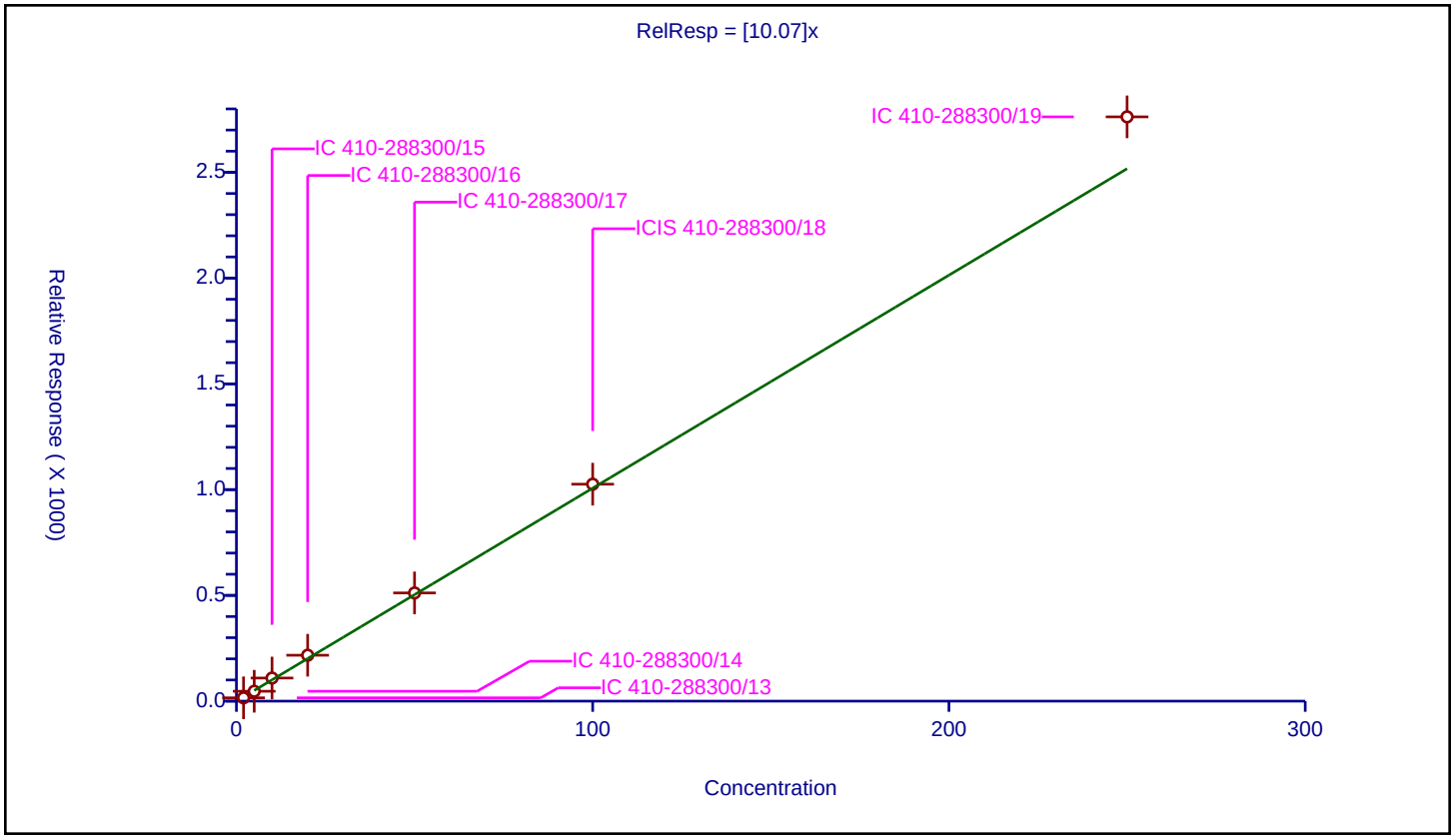
Curve Coefficients

Intercept:	0
Slope:	10.07

Error Coefficients

Standard Error:	2970000
Relative Standard Error:	11.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	2.0	15.641016	50.0	136580.0	7.820508	Y
2	IC 410-288300/14	5.0	46.798037	50.0	132044.0	9.359607	Y
3	IC 410-288300/15	10.0	109.174223	50.0	113154.0	10.917422	Y
4	IC 410-288300/16	20.0	216.959611	50.0	117656.0	10.847981	Y
5	IC 410-288300/17	50.0	511.583054	50.0	131878.0	10.231661	Y
6	ICIS 410-288300/18	100.0	1025.725289	50.0	129707.0	10.257253	Y
7	IC 410-288300/19	250.0	2762.346354	50.0	119756.0	11.049385	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

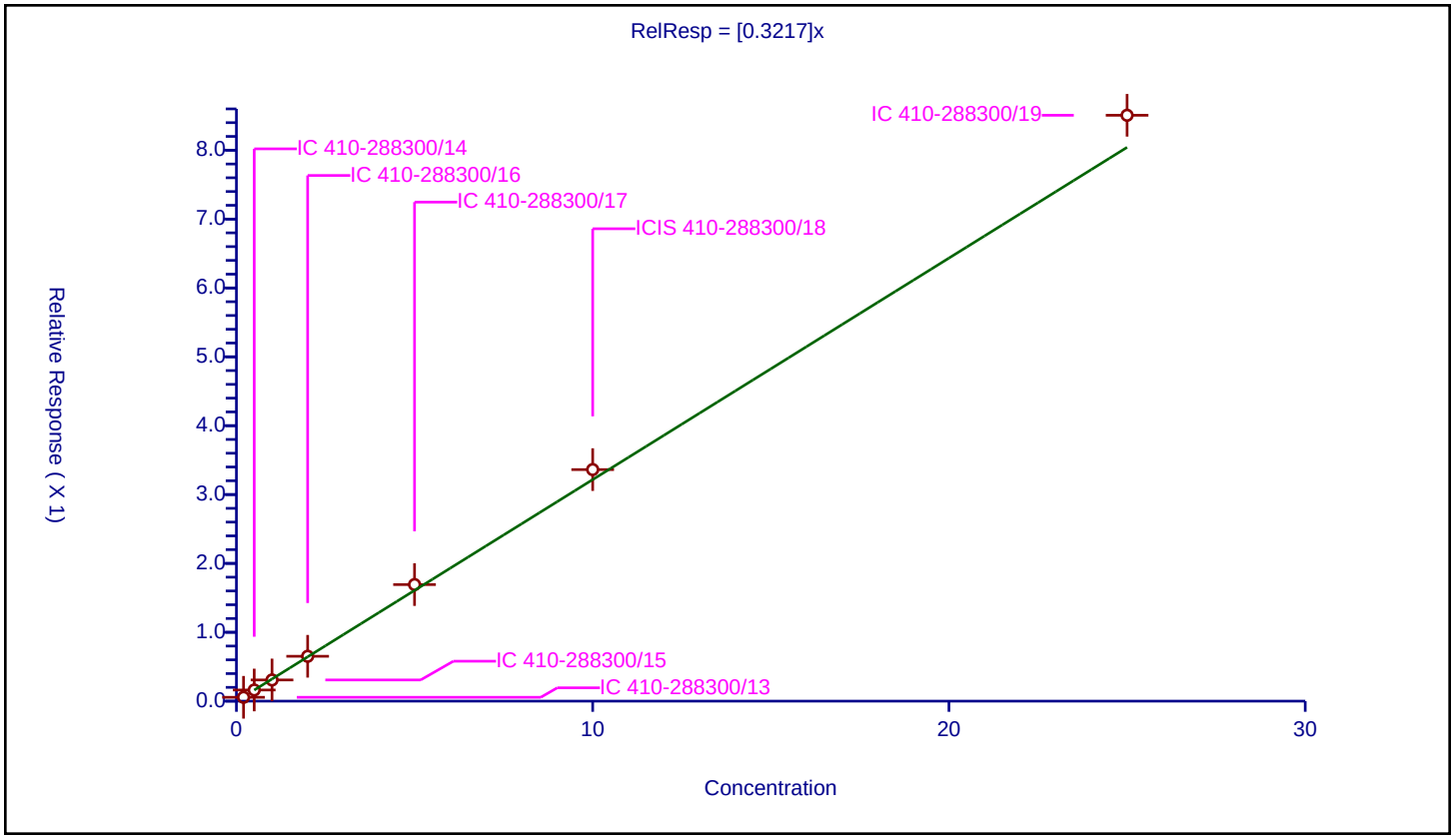
Curve Coefficients

Intercept:	0
Slope:	0.3217

Error Coefficients

Standard Error:	586000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.055904	10.0	1542113.0	0.279519	Y
2	IC 410-288300/14	0.5	0.161793	10.0	1536465.0	0.323587	Y
3	IC 410-288300/15	1.0	0.307781	10.0	1510198.0	0.307781	Y
4	IC 410-288300/16	2.0	0.651518	10.0	1510978.0	0.325759	Y
5	IC 410-288300/17	5.0	1.692756	10.0	1523078.0	0.338551	Y
6	ICIS 410-288300/18	10.0	3.362291	10.0	1523479.0	0.336229	Y
7	IC 410-288300/19	25.0	8.507263	10.0	1542455.0	0.340291	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

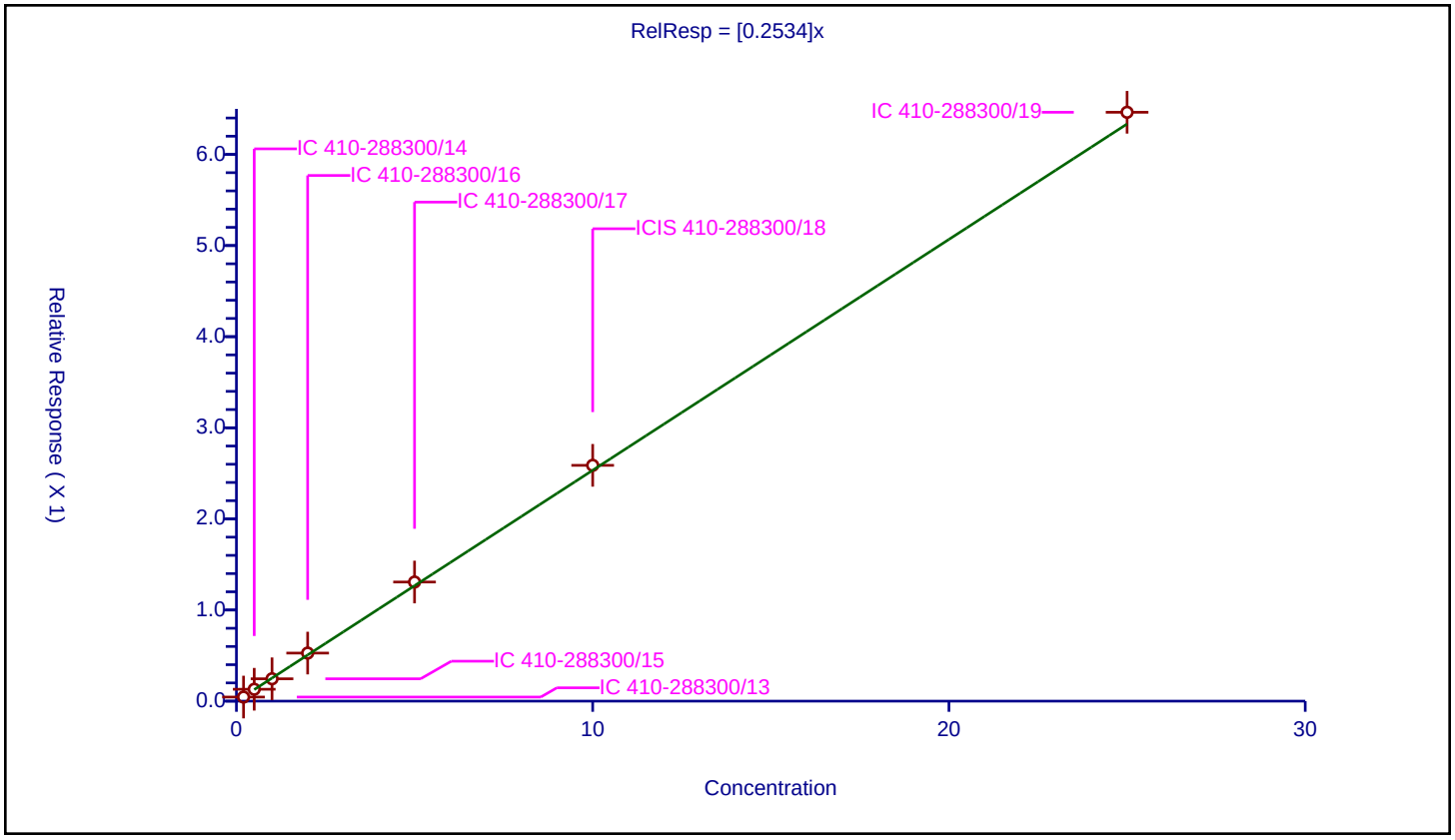
Curve Coefficients

Intercept:	0
Slope:	0.2534

Error Coefficients

Standard Error:	447000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.044958	10.0	1542113.0	0.224789	Y
2	IC 410-288300/14	0.5	0.130455	10.0	1536465.0	0.260911	Y
3	IC 410-288300/15	1.0	0.245425	10.0	1510198.0	0.245425	Y
4	IC 410-288300/16	2.0	0.527566	10.0	1510978.0	0.263783	Y
5	IC 410-288300/17	5.0	1.307353	10.0	1523078.0	0.261471	Y
6	ICIS 410-288300/18	10.0	2.587899	10.0	1523479.0	0.25879	Y
7	IC 410-288300/19	25.0	6.462989	10.0	1542455.0	0.25852	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

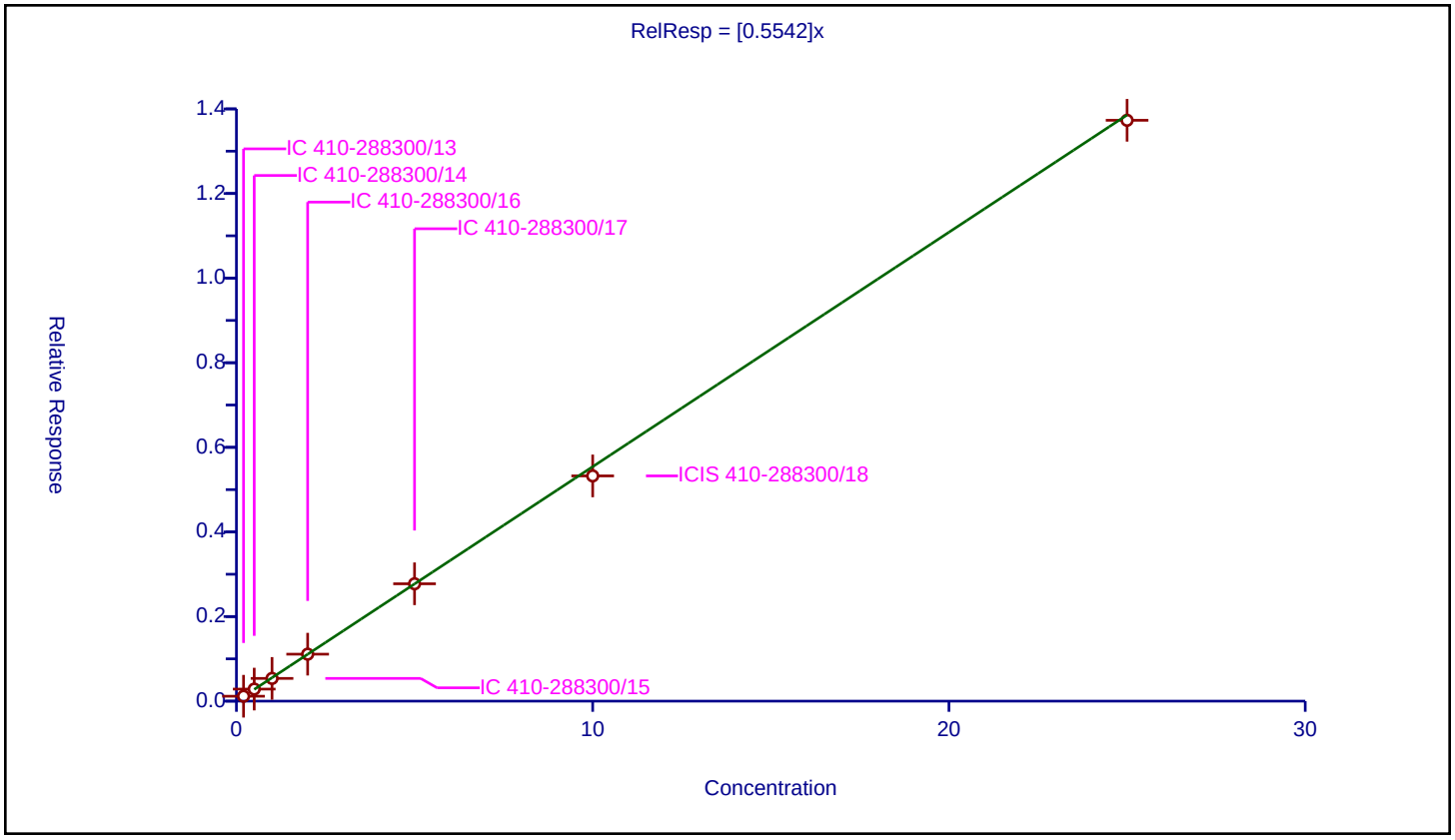
Curve Coefficients

Intercept:	0
Slope:	0.5542

Error Coefficients

Standard Error:	945000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.116113	10.0	1542113.0	0.580567	Y
2	IC 410-288300/14	0.5	0.285057	10.0	1536465.0	0.570114	Y
3	IC 410-288300/15	1.0	0.537327	10.0	1510198.0	0.537327	Y
4	IC 410-288300/16	2.0	1.110274	10.0	1510978.0	0.555137	Y
5	IC 410-288300/17	5.0	2.774008	10.0	1523078.0	0.554802	Y
6	ICIS 410-288300/18	10.0	5.324143	10.0	1523479.0	0.532414	Y
7	IC 410-288300/19	25.0	13.730229	10.0	1542455.0	0.549209	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

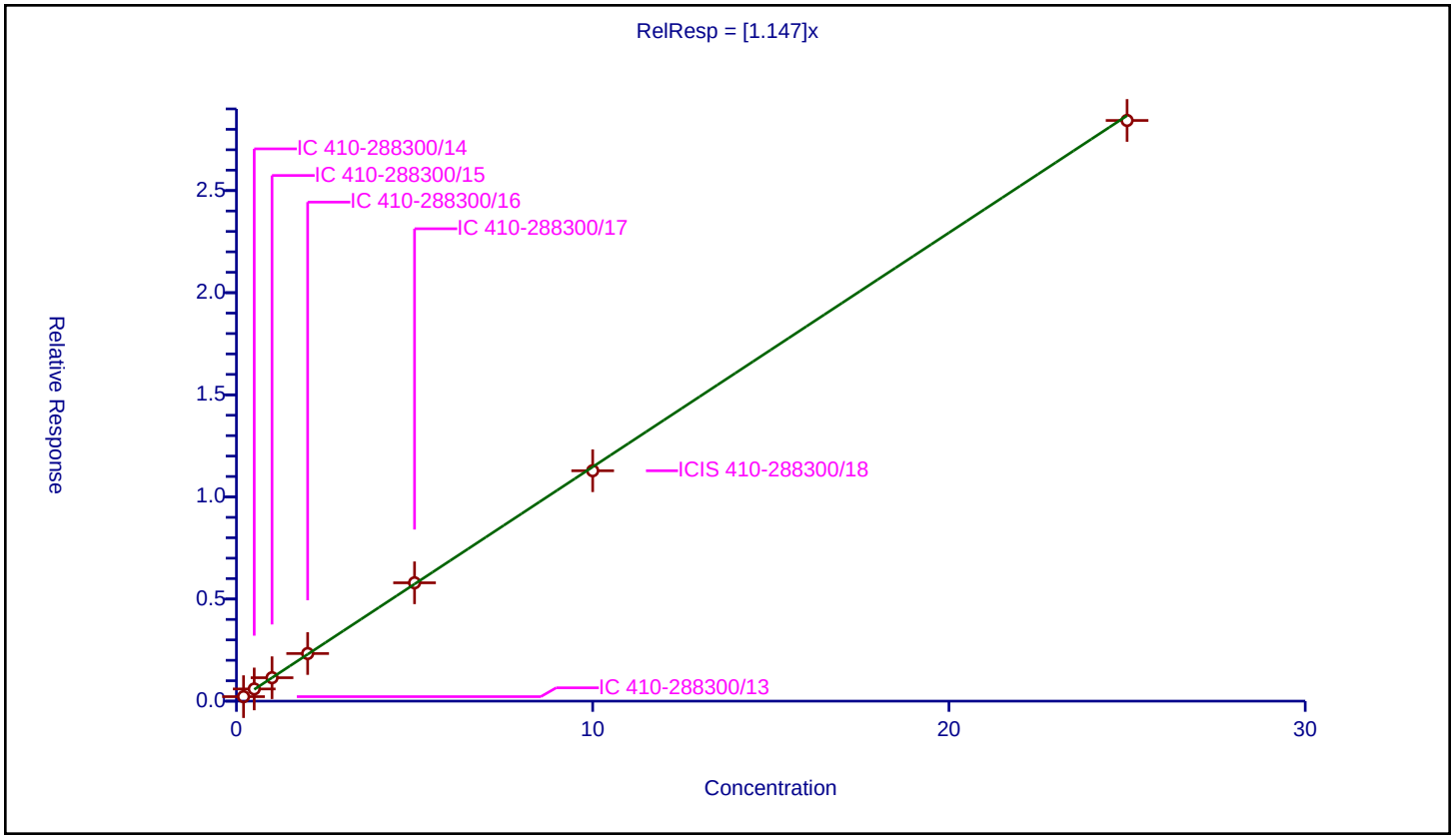
Curve Coefficients

Intercept:	0
Slope:	1.147

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.219575	10.0	1542113.0	1.097877	Y
2	IC 410-288300/14	0.5	0.596395	10.0	1536465.0	1.19279	Y
3	IC 410-288300/15	1.0	1.146823	10.0	1510198.0	1.146823	Y
4	IC 410-288300/16	2.0	2.331331	10.0	1510978.0	1.165666	Y
5	IC 410-288300/17	5.0	5.794917	10.0	1523078.0	1.158983	Y
6	ICIS 410-288300/18	10.0	11.281304	10.0	1523479.0	1.12813	Y
7	IC 410-288300/19	25.0	28.433601	10.0	1542455.0	1.137344	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

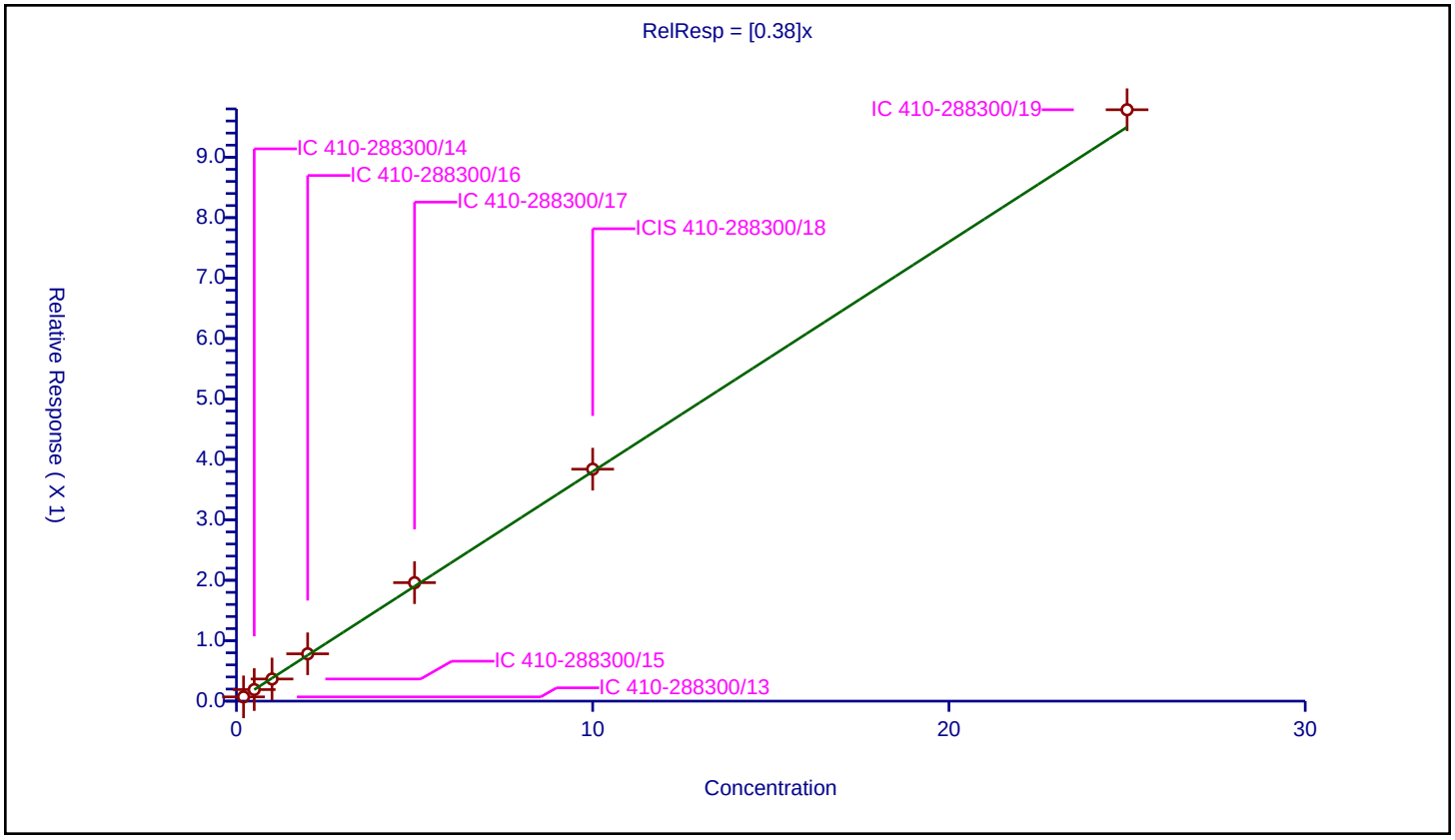
Curve Coefficients

Intercept:	0
Slope:	0.38

Error Coefficients

Standard Error:	674000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.070306	10.0	1542113.0	0.351531	Y
2	IC 410-288300/14	0.5	0.191426	10.0	1536465.0	0.382853	Y
3	IC 410-288300/15	1.0	0.366343	10.0	1510198.0	0.366343	Y
4	IC 410-288300/16	2.0	0.783188	10.0	1510978.0	0.391594	Y
5	IC 410-288300/17	5.0	1.960307	10.0	1523078.0	0.392061	Y
6	ICIS 410-288300/18	10.0	3.838563	10.0	1523479.0	0.383856	Y
7	IC 410-288300/19	25.0	9.78601	10.0	1542455.0	0.39144	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

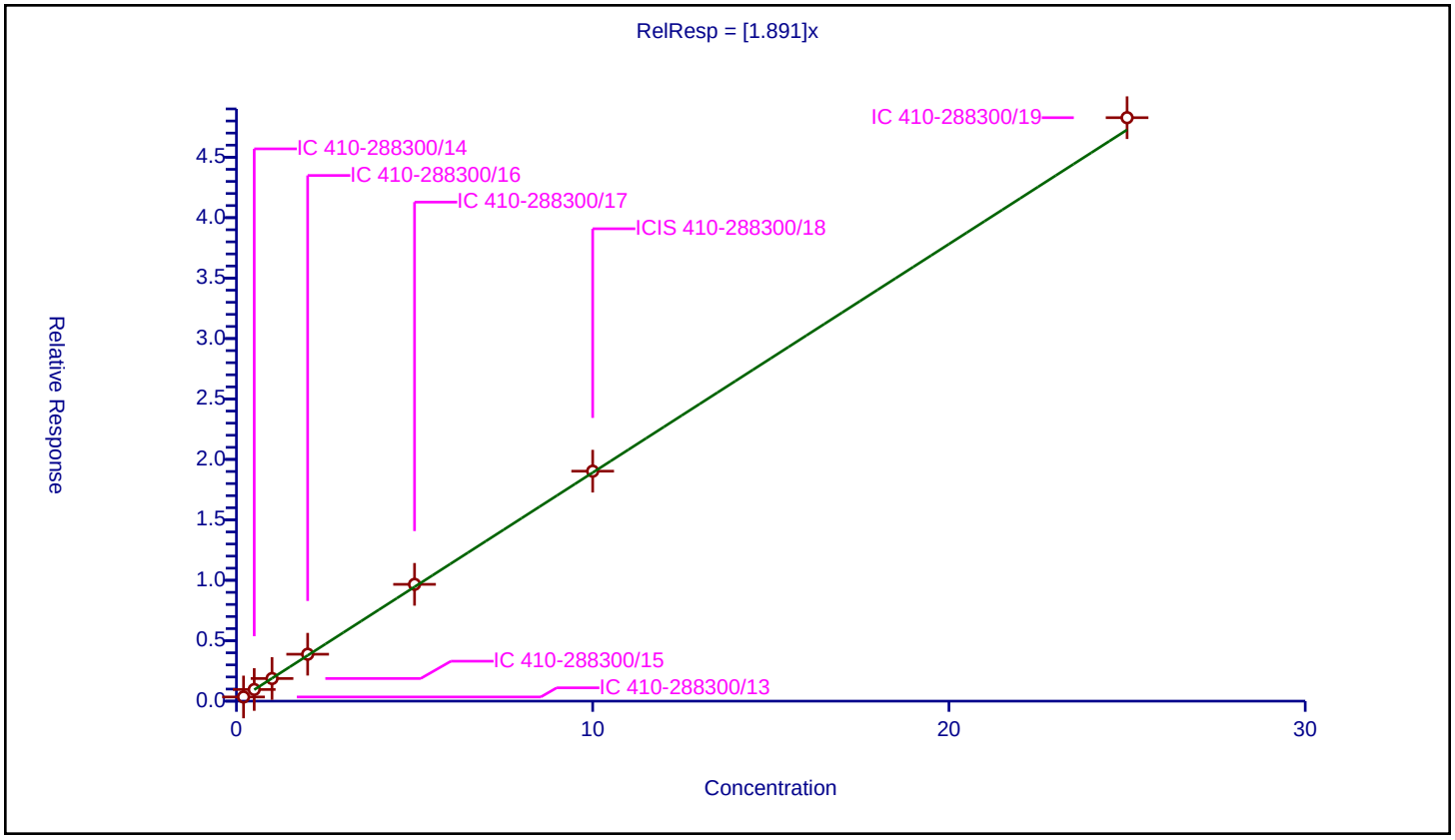
Curve Coefficients

Intercept:	0
Slope:	1.891

Error Coefficients

Standard Error:	3330000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.345545	10.0	1542113.0	1.727727	Y
2	IC 410-288300/14	0.5	0.964806	10.0	1536465.0	1.929611	Y
3	IC 410-288300/15	1.0	1.871145	10.0	1510198.0	1.871145	Y
4	IC 410-288300/16	2.0	3.882426	10.0	1510978.0	1.941213	Y
5	IC 410-288300/17	5.0	9.66416	10.0	1523078.0	1.932832	Y
6	ICIS 410-288300/18	10.0	19.026879	10.0	1523479.0	1.902688	Y
7	IC 410-288300/19	25.0	48.27265	10.0	1542455.0	1.930906	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

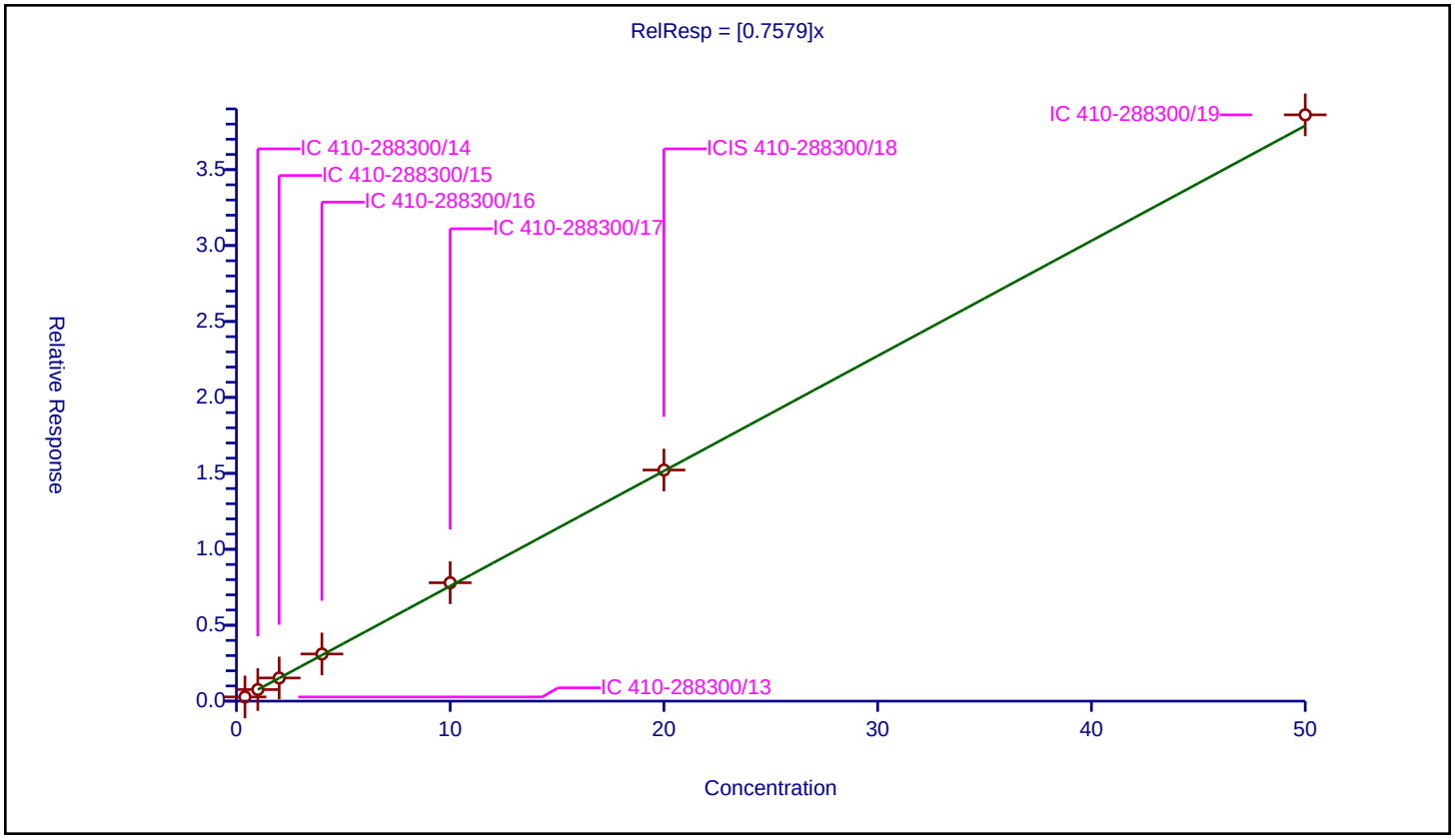
Curve Coefficients

Intercept:	0
Slope:	0.7579

Error Coefficients

Standard Error:	2660000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.4	0.27618	10.0	1542113.0	0.690449	Y
2	IC 410-288300/14	1.0	0.76277	10.0	1536465.0	0.76277	Y
3	IC 410-288300/15	2.0	1.525363	10.0	1510198.0	0.762681	Y
4	IC 410-288300/16	4.0	3.105386	10.0	1510978.0	0.776347	Y
5	IC 410-288300/17	10.0	7.796364	10.0	1523078.0	0.779636	Y
6	ICIS 410-288300/18	20.0	15.22	10.0	1523479.0	0.761	Y
7	IC 410-288300/19	50.0	38.609658	10.0	1542455.0	0.772193	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

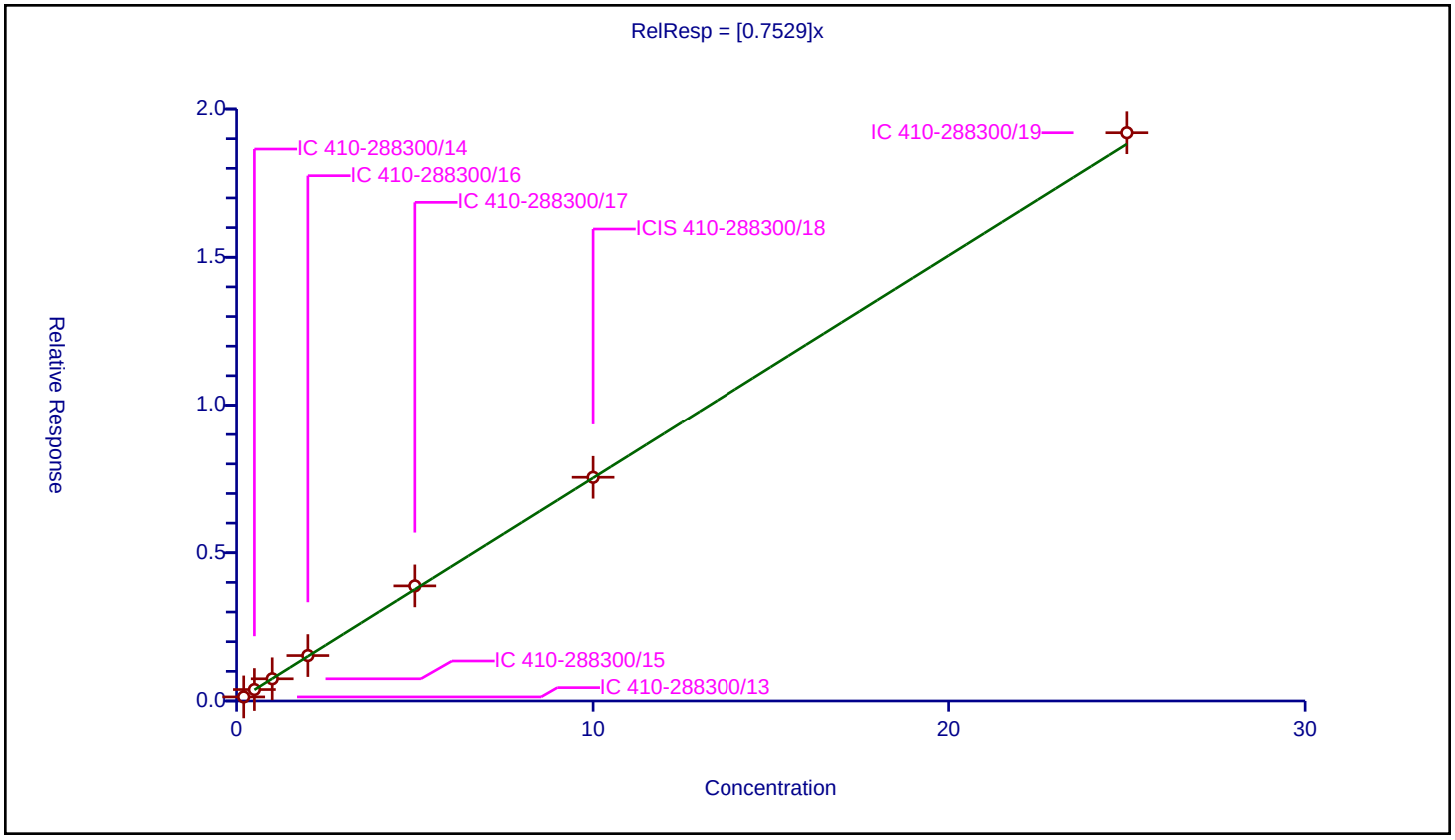
Curve Coefficients

Intercept:	0
Slope:	0.7529

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.136935	10.0	1542113.0	0.684677	Y
2	IC 410-288300/14	0.5	0.385899	10.0	1536465.0	0.771798	Y
3	IC 410-288300/15	1.0	0.748452	10.0	1510198.0	0.748452	Y
4	IC 410-288300/16	2.0	1.53216	10.0	1510978.0	0.76608	Y
5	IC 410-288300/17	5.0	3.881975	10.0	1523078.0	0.776395	Y
6	ICIS 410-288300/18	10.0	7.547042	10.0	1523479.0	0.754704	Y
7	IC 410-288300/19	25.0	19.201202	10.0	1542455.0	0.768048	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

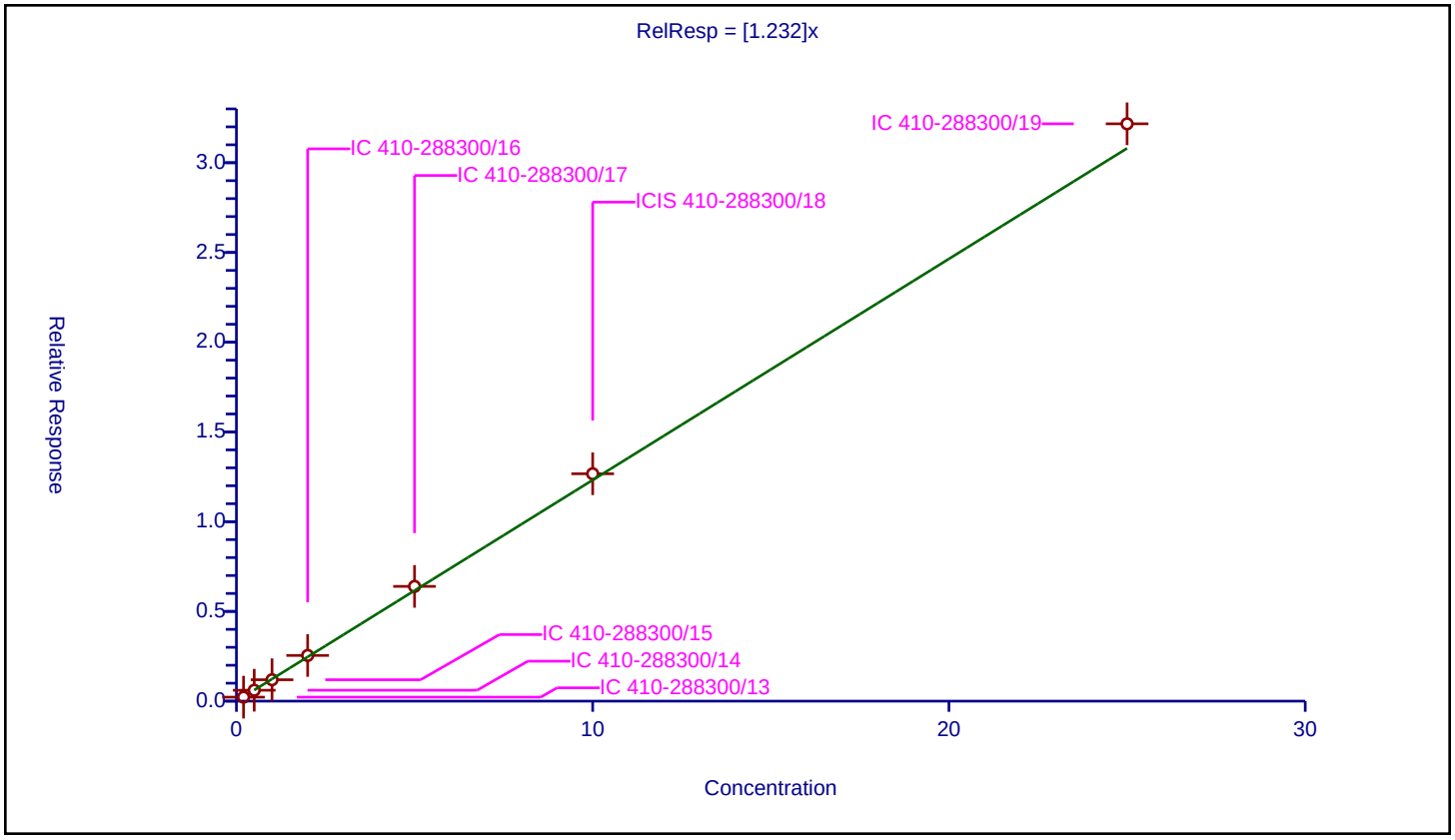
Curve Coefficients

Intercept:	0
Slope:	1.232

Error Coefficients

Standard Error:	2220000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.222532	10.0	1542113.0	1.112662	Y
2	IC 410-288300/14	0.5	0.607179	10.0	1536465.0	1.214359	Y
3	IC 410-288300/15	1.0	1.192665	10.0	1510198.0	1.192665	Y
4	IC 410-288300/16	2.0	2.54557	10.0	1510978.0	1.272785	Y
5	IC 410-288300/17	5.0	6.393533	10.0	1523078.0	1.278707	Y
6	ICIS 410-288300/18	10.0	12.66962	10.0	1523479.0	1.266962	Y
7	IC 410-288300/19	25.0	32.169483	10.0	1542455.0	1.286779	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

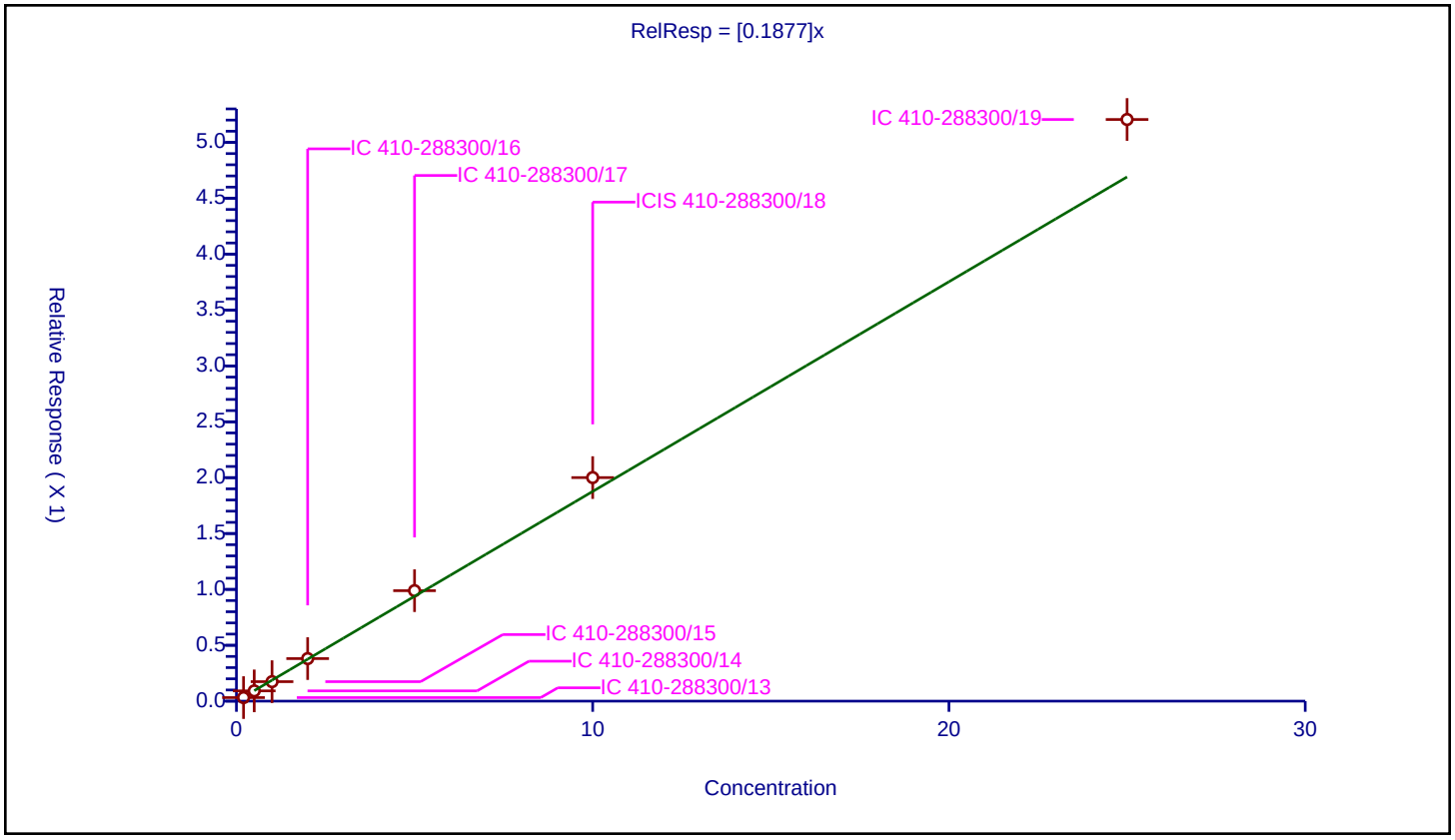
Curve Coefficients

Intercept:	0
Slope:	0.1877

Error Coefficients

Standard Error:	357000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.031846	10.0	1542113.0	0.15923	Y
2	IC 410-288300/14	0.5	0.09186	10.0	1536465.0	0.18372	Y
3	IC 410-288300/15	1.0	0.174322	10.0	1510198.0	0.174322	Y
4	IC 410-288300/16	2.0	0.380661	10.0	1510978.0	0.19033	Y
5	IC 410-288300/17	5.0	0.988636	10.0	1523078.0	0.197727	Y
6	ICIS 410-288300/18	10.0	2.0005	10.0	1523479.0	0.20005	Y
7	IC 410-288300/19	25.0	5.205092	10.0	1542455.0	0.208204	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

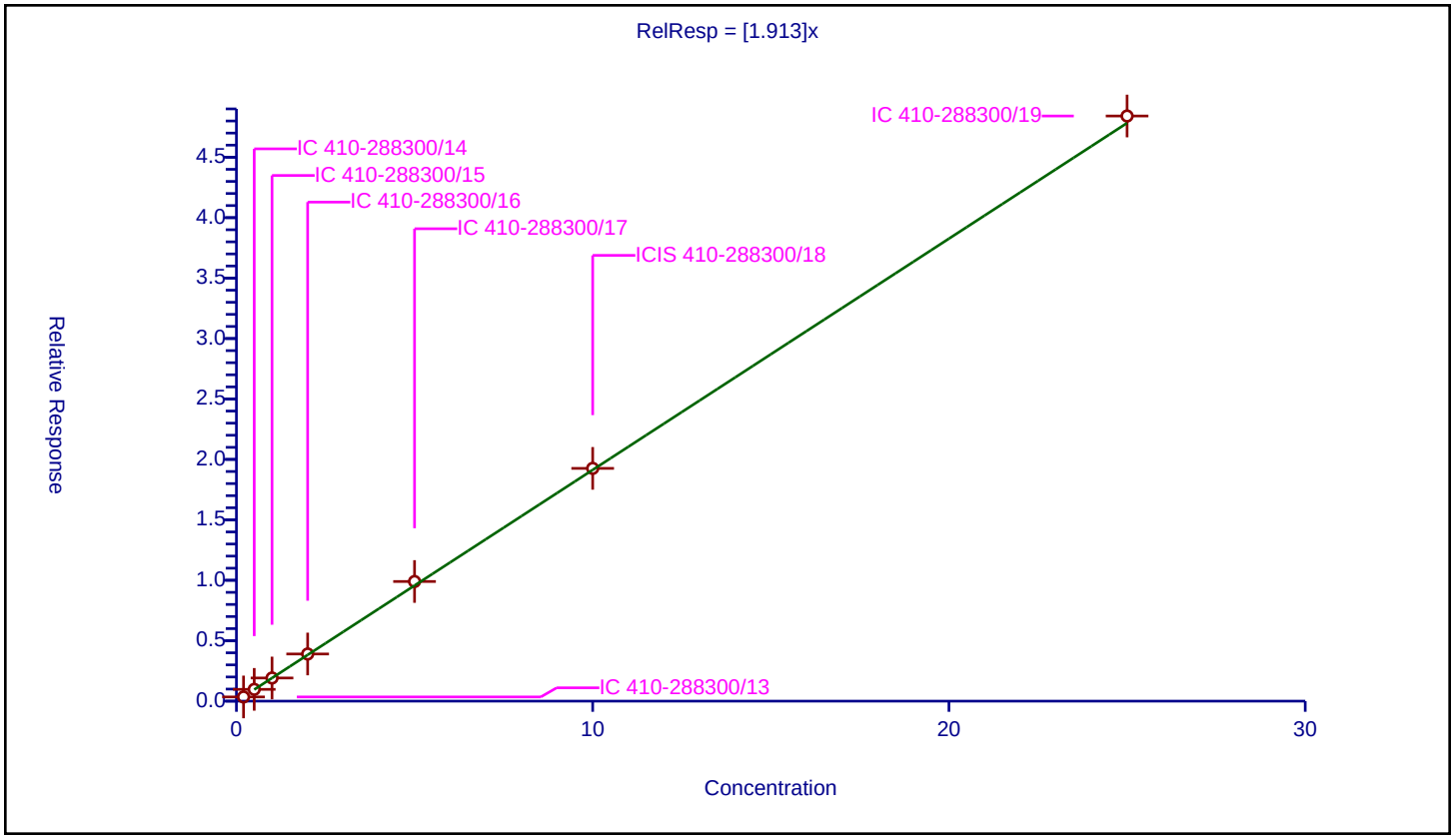
Curve Coefficients

Intercept:	0
Slope:	1.913

Error Coefficients

Standard Error:	3340000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.346116	10.0	1542113.0	1.73058	Y
2	IC 410-288300/14	0.5	0.975961	10.0	1536465.0	1.951922	Y
3	IC 410-288300/15	1.0	1.916226	10.0	1510198.0	1.916226	Y
4	IC 410-288300/16	2.0	3.902327	10.0	1510978.0	1.951163	Y
5	IC 410-288300/17	5.0	9.899598	10.0	1523078.0	1.97992	Y
6	ICIS 410-288300/18	10.0	19.258789	10.0	1523479.0	1.925879	Y
7	IC 410-288300/19	25.0	48.411429	10.0	1542455.0	1.936457	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

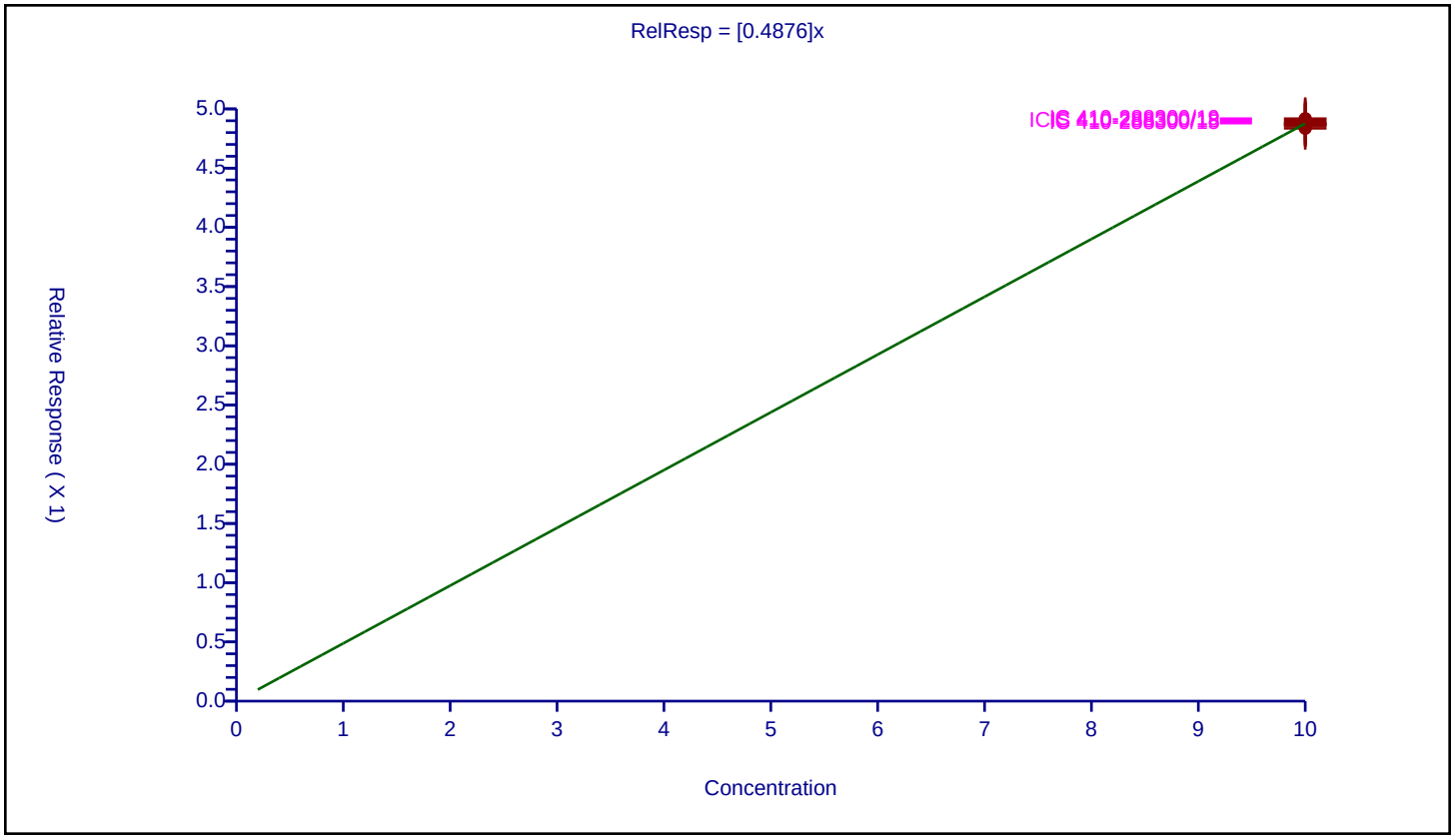
Curve Coefficients

Intercept:	0
Slope:	0.4876

Error Coefficients

Standard Error:	804000
Relative Standard Error:	0.5
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	4.860202	10.0	1542113.0	0.48602	Y
2	IC 410-288300/14	10.0	4.836251	10.0	1536465.0	0.483625	Y
3	IC 410-288300/15	10.0	4.880334	10.0	1510198.0	0.488033	Y
4	IC 410-288300/16	10.0	4.864565	10.0	1510978.0	0.486456	Y
5	IC 410-288300/17	10.0	4.876224	10.0	1523078.0	0.487622	Y
6	ICIS 410-288300/18	10.0	4.899017	10.0	1523479.0	0.489902	Y
7	IC 410-288300/19	10.0	4.917187	10.0	1542455.0	0.491719	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

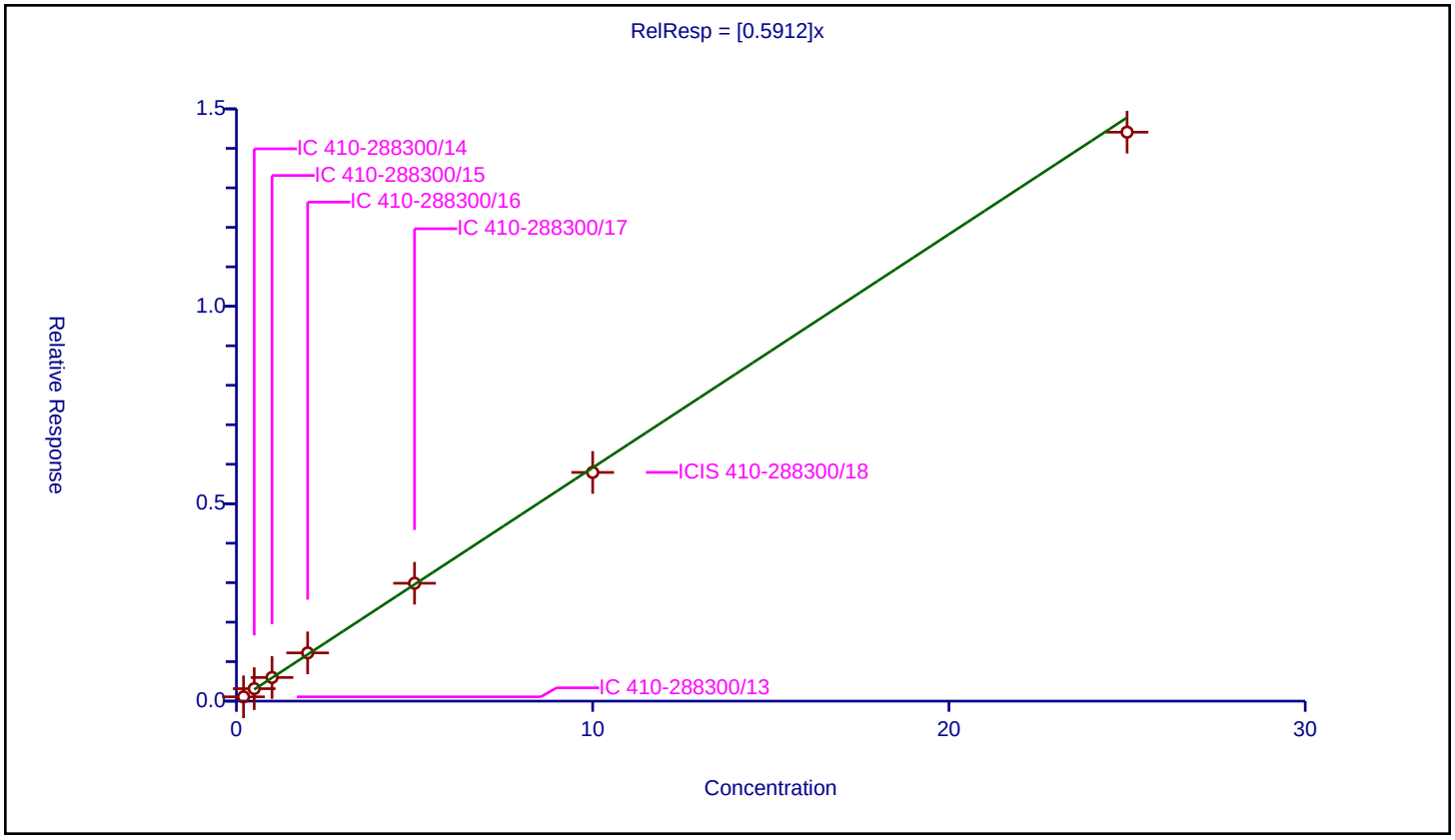
Curve Coefficients

Intercept:	0
Slope:	0.5912

Error Coefficients

Standard Error:	597000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.10881	10.0	881628.0	0.54405	Y
2	IC 410-288300/14	0.5	0.315918	10.0	871682.0	0.631836	Y
3	IC 410-288300/15	1.0	0.598962	10.0	860455.0	0.598962	Y
4	IC 410-288300/16	2.0	1.221822	10.0	872795.0	0.610911	Y
5	IC 410-288300/17	5.0	2.985761	10.0	886836.0	0.597152	Y
6	ICIS 410-288300/18	10.0	5.792545	10.0	900908.0	0.579254	Y
7	IC 410-288300/19	25.0	14.410555	10.0	926990.0	0.576422	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

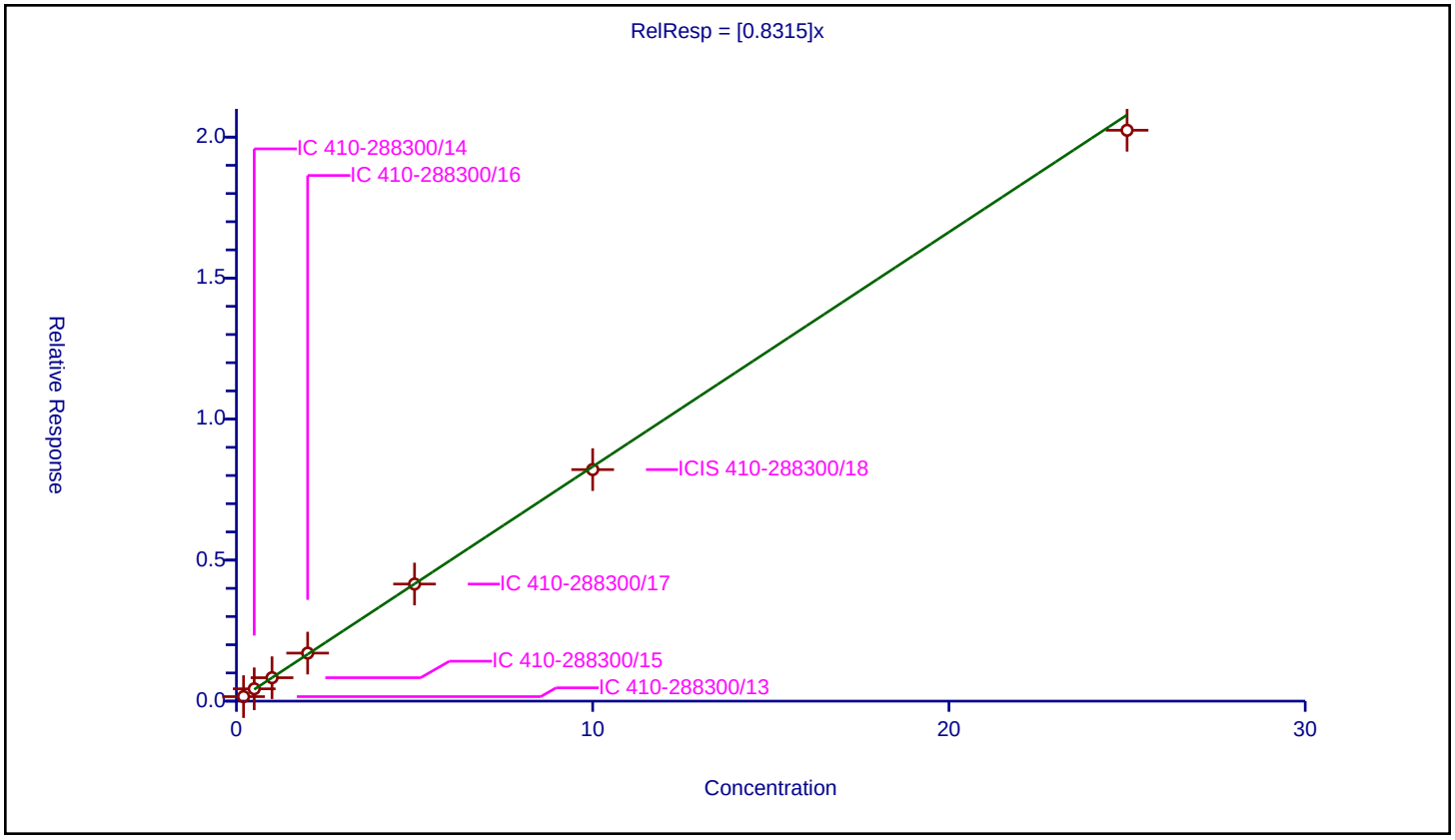
Curve Coefficients

Intercept:	0
Slope:	0.8315

Error Coefficients

Standard Error:	840000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.160533	10.0	881628.0	0.802663	Y
2	IC 410-288300/14	0.5	0.437086	10.0	871682.0	0.874172	Y
3	IC 410-288300/15	1.0	0.830874	10.0	860455.0	0.830874	Y
4	IC 410-288300/16	2.0	1.703241	10.0	872795.0	0.85162	Y
5	IC 410-288300/17	5.0	4.152425	10.0	886836.0	0.830485	Y
6	ICIS 410-288300/18	10.0	8.21015	10.0	900908.0	0.821015	Y
7	IC 410-288300/19	25.0	20.242128	10.0	926990.0	0.809685	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

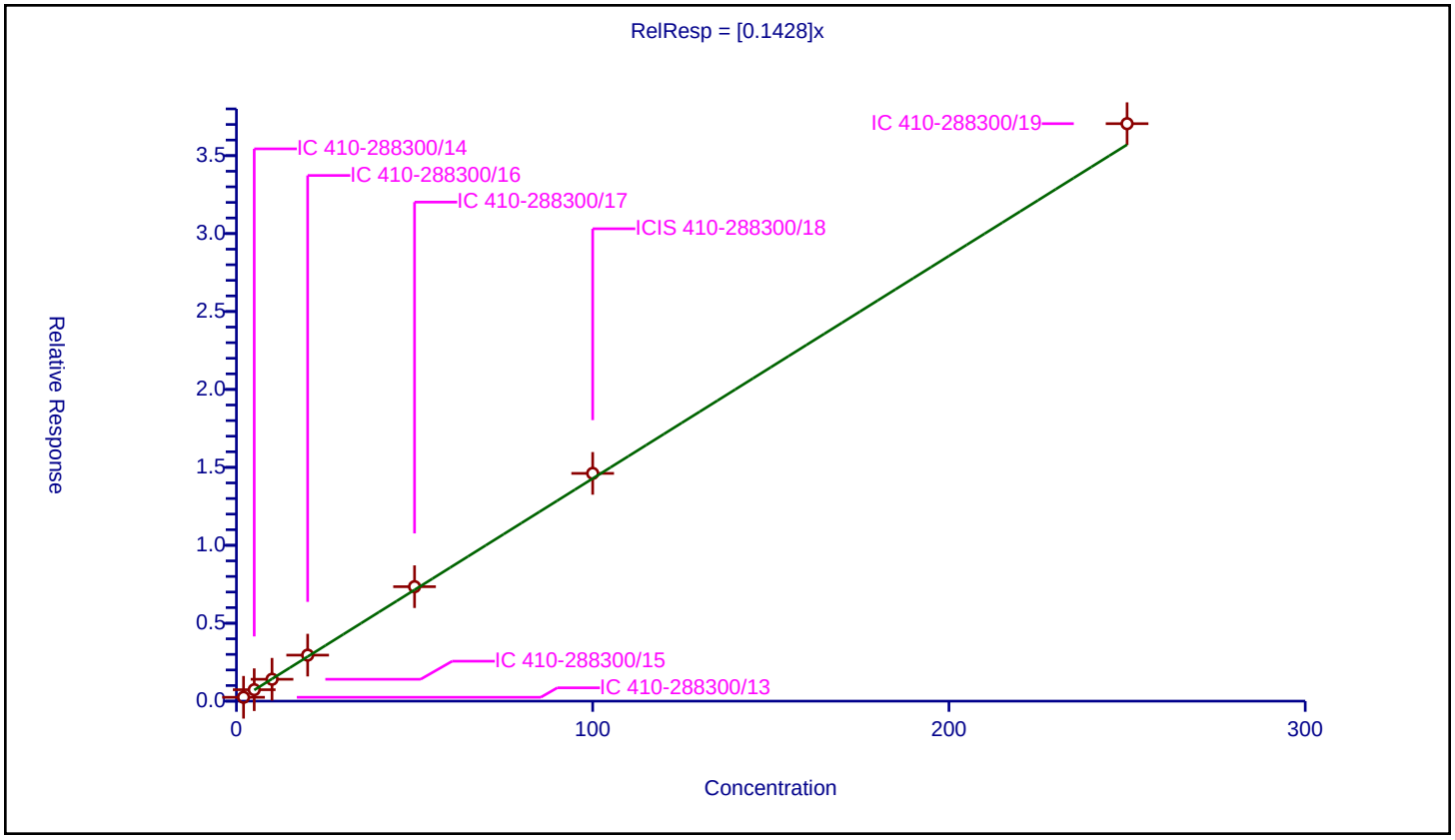
Curve Coefficients

Intercept:	0
Slope:	0.1428

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	2.0	0.247361	10.0	881628.0	0.12368	Y
2	IC 410-288300/14	5.0	0.733857	10.0	871682.0	0.146771	Y
3	IC 410-288300/15	10.0	1.404292	10.0	860455.0	0.140429	Y
4	IC 410-288300/16	20.0	2.952824	10.0	872795.0	0.147641	Y
5	IC 410-288300/17	50.0	7.344537	10.0	886836.0	0.146891	Y
6	ICIS 410-288300/18	100.0	14.6145	10.0	900908.0	0.146145	Y
7	IC 410-288300/19	250.0	37.051015	10.0	926990.0	0.148204	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

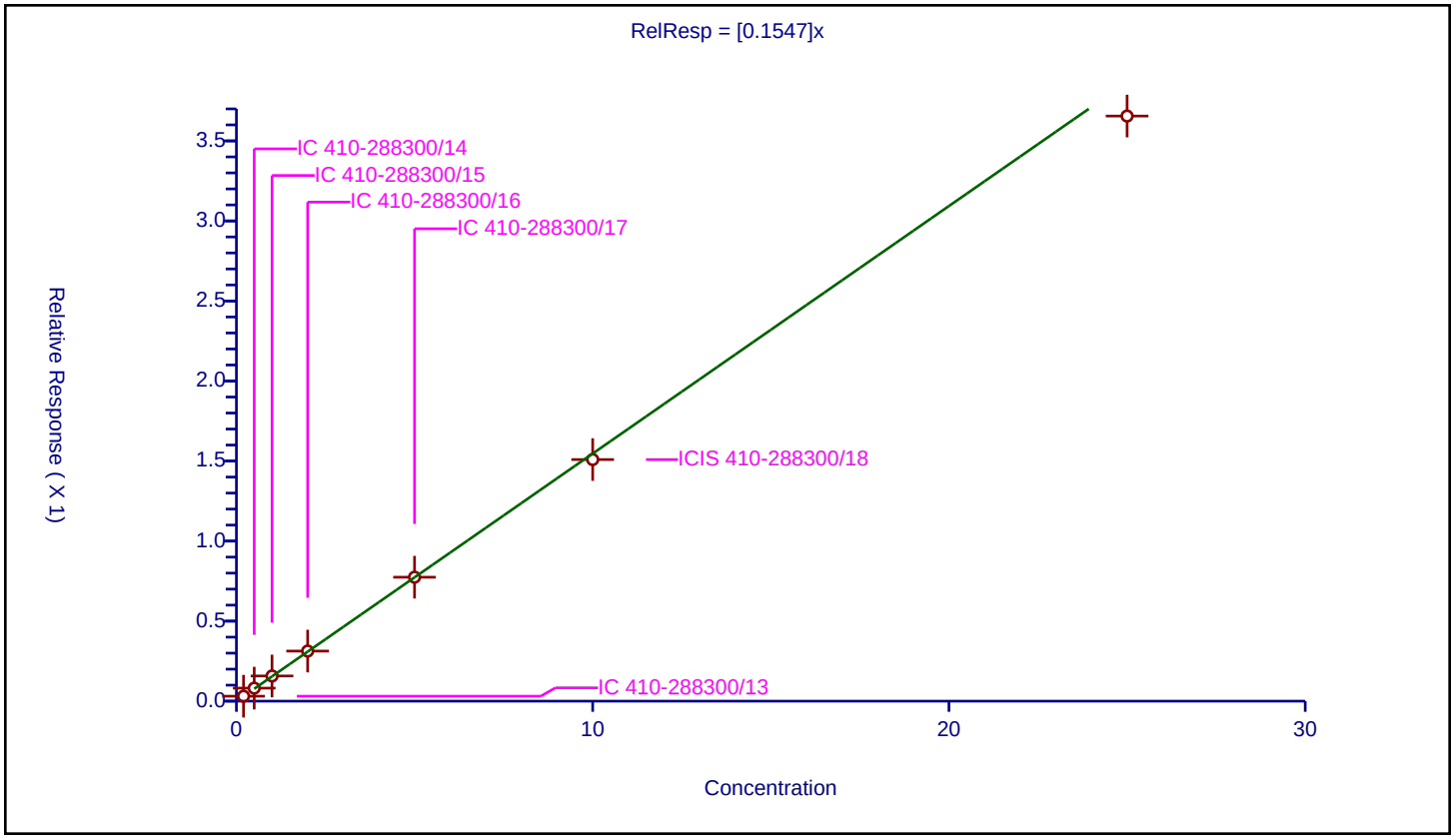
Curve Coefficients

Intercept:	0
Slope:	0.1547

Error Coefficients

Standard Error:	152000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.030852	10.0	881628.0	0.15426	Y
2	IC 410-288300/14	0.5	0.081257	10.0	871682.0	0.162513	Y
3	IC 410-288300/15	1.0	0.157324	10.0	860455.0	0.157324	Y
4	IC 410-288300/16	2.0	0.312983	10.0	872795.0	0.156492	Y
5	IC 410-288300/17	5.0	0.774258	10.0	886836.0	0.154852	Y
6	ICIS 410-288300/18	10.0	1.509344	10.0	900908.0	0.150934	Y
7	IC 410-288300/19	25.0	3.655174	10.0	926990.0	0.146207	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

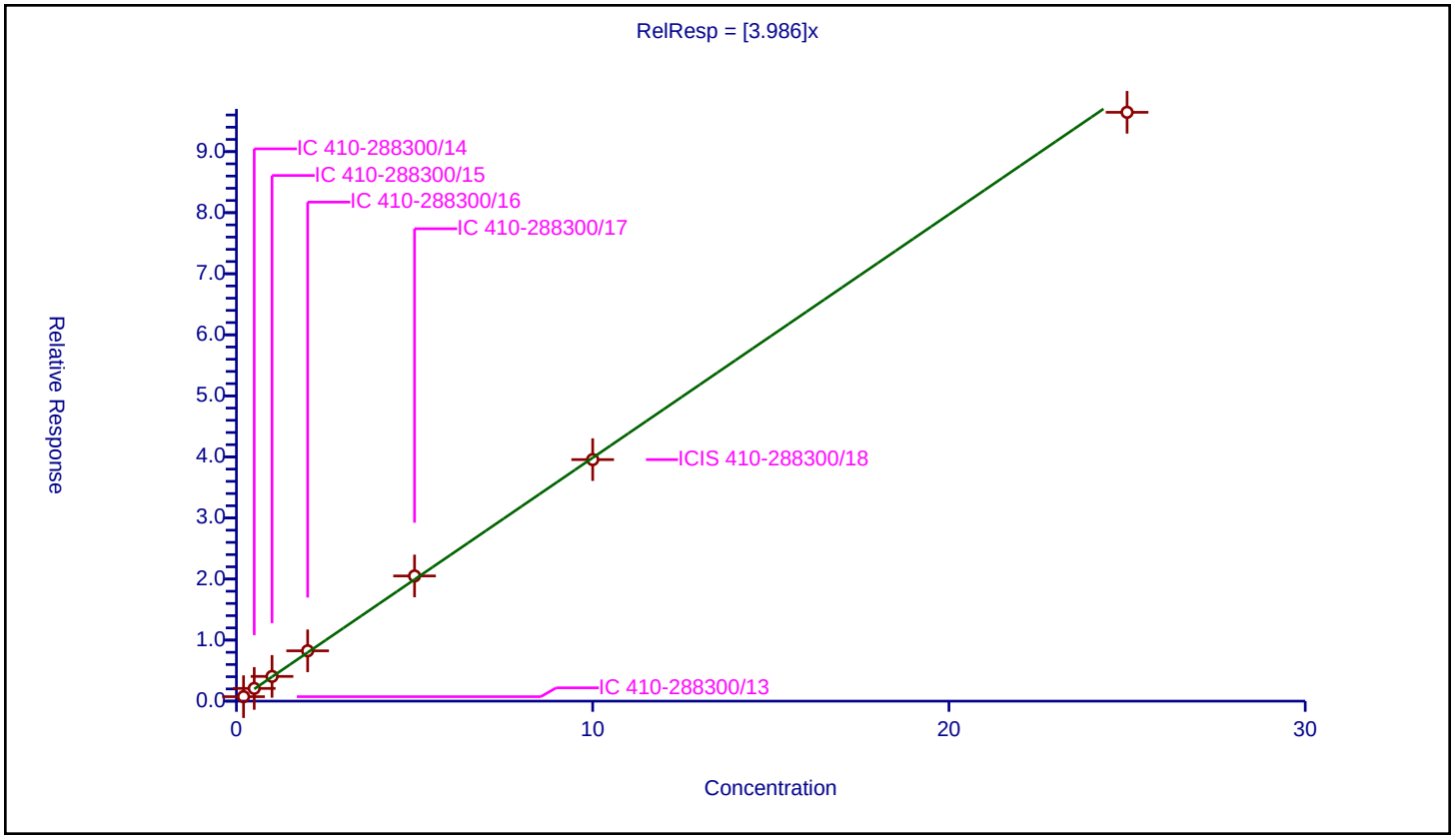
Curve Coefficients

Intercept:	0
Slope:	3.986

Error Coefficients

Standard Error:	4010000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.729911	10.0	881628.0	3.649555	Y
2	IC 410-288300/14	0.5	2.081688	10.0	871682.0	4.163376	Y
3	IC 410-288300/15	1.0	4.051566	10.0	860455.0	4.051566	Y
4	IC 410-288300/16	2.0	8.240366	10.0	872795.0	4.120183	Y
5	IC 410-288300/17	5.0	20.502641	10.0	886836.0	4.100528	Y
6	ICIS 410-288300/18	10.0	39.559777	10.0	900908.0	3.955978	Y
7	IC 410-288300/19	25.0	96.443629	10.0	926990.0	3.857745	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

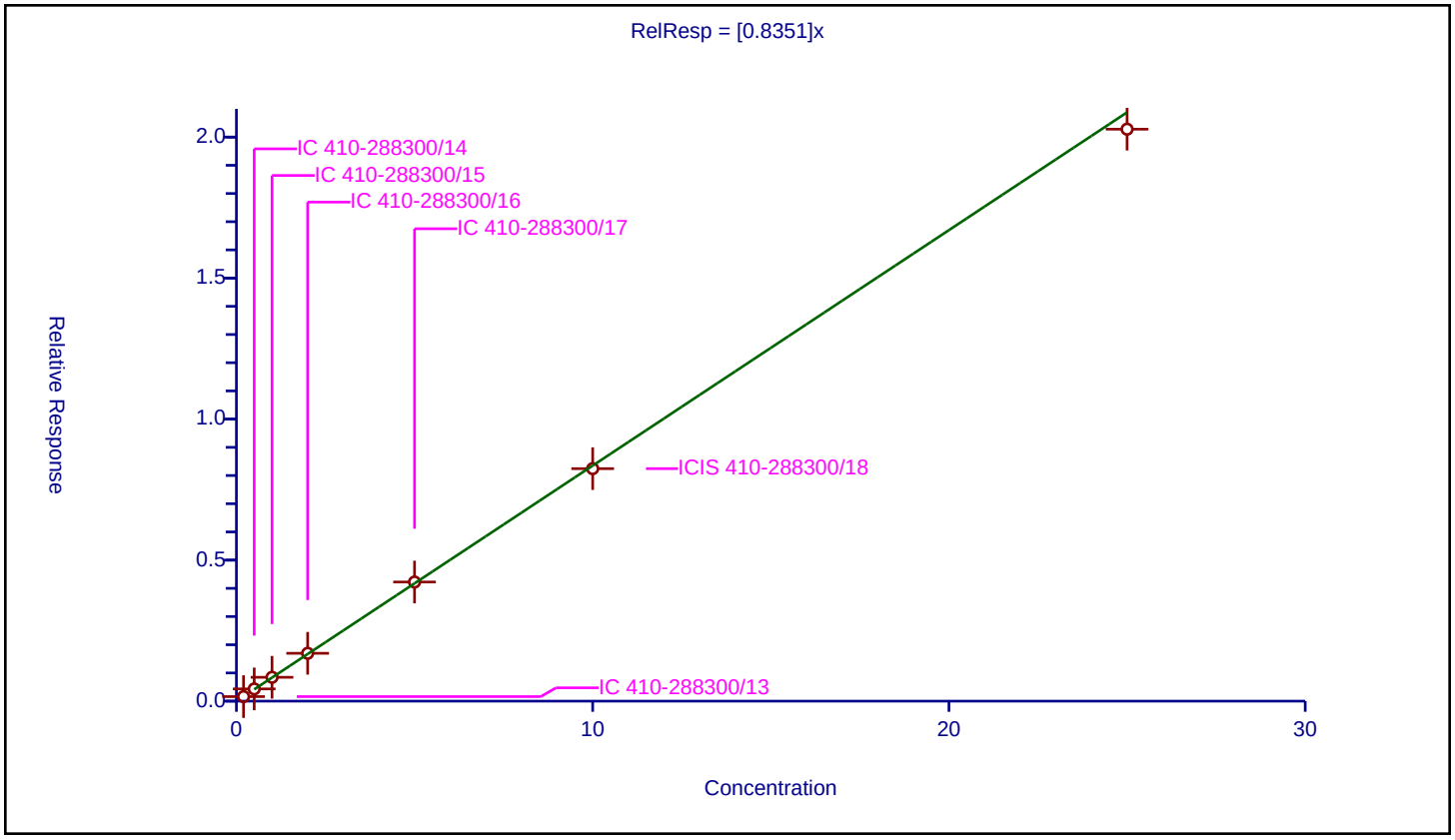
Curve Coefficients

Intercept:	0
Slope:	0.8351

Error Coefficients

Standard Error:	842000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.160737	10.0	881628.0	0.803684	Y
2	IC 410-288300/14	0.5	0.433472	10.0	871682.0	0.866945	Y
3	IC 410-288300/15	1.0	0.845994	10.0	860455.0	0.845994	Y
4	IC 410-288300/16	2.0	1.696985	10.0	872795.0	0.848492	Y
5	IC 410-288300/17	5.0	4.223926	10.0	886836.0	0.844785	Y
6	ICIS 410-288300/18	10.0	8.243761	10.0	900908.0	0.824376	Y
7	IC 410-288300/19	25.0	20.28065	10.0	926990.0	0.811226	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

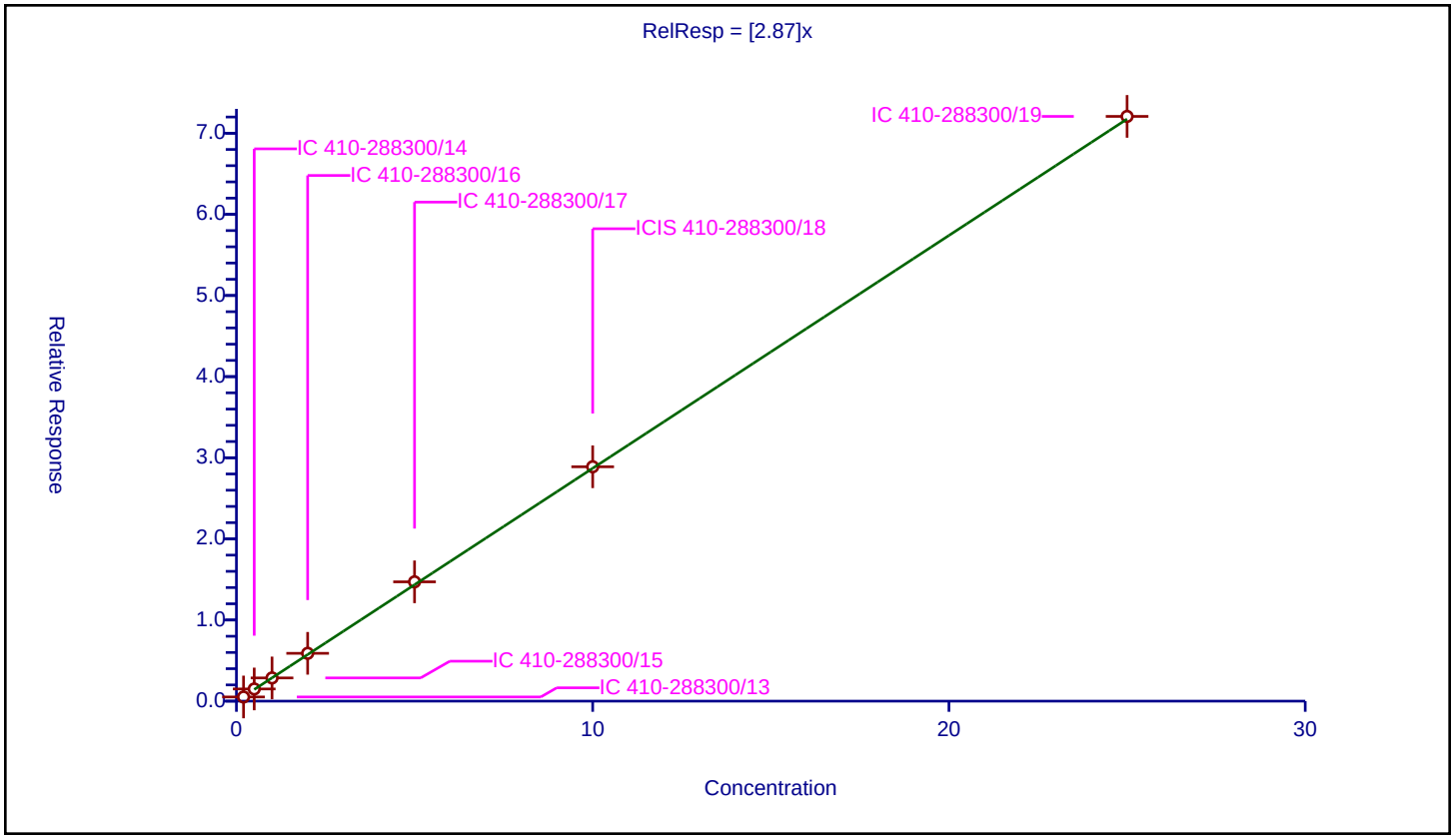
Curve Coefficients

Intercept:	0
Slope:	2.87

Error Coefficients

Standard Error:	2980000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.513187	10.0	881628.0	2.565935	Y
2	IC 410-288300/14	0.5	1.501018	10.0	871682.0	3.002035	Y
3	IC 410-288300/15	1.0	2.861928	10.0	860455.0	2.861928	Y
4	IC 410-288300/16	2.0	5.893515	10.0	872795.0	2.946757	Y
5	IC 410-288300/17	5.0	14.705605	10.0	886836.0	2.941121	Y
6	ICIS 410-288300/18	10.0	28.889387	10.0	900908.0	2.888939	Y
7	IC 410-288300/19	25.0	72.073431	10.0	926990.0	2.882937	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

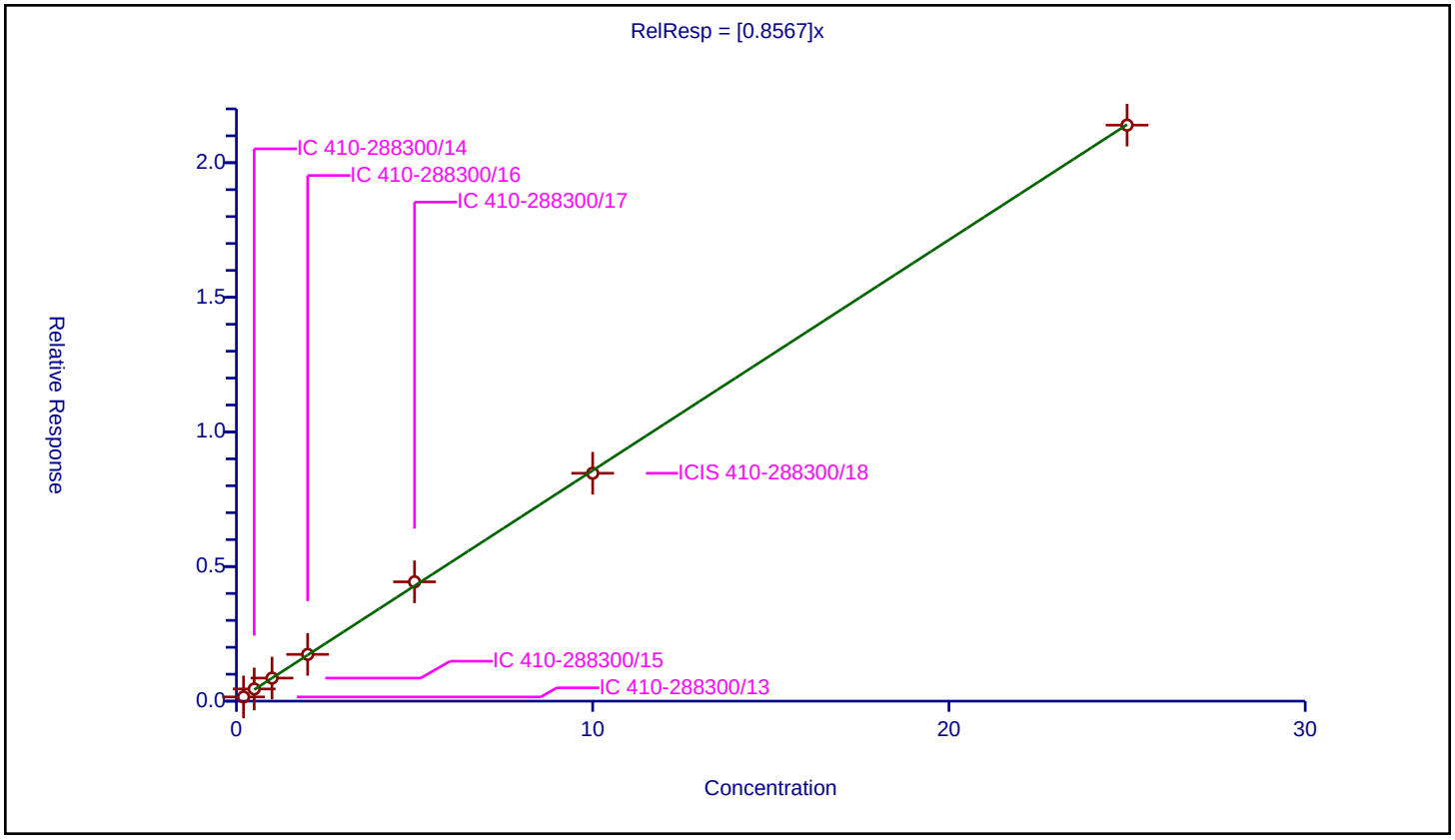
Curve Coefficients

Intercept:	0
Slope:	0.8567

Error Coefficients

Standard Error:	885000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.155757	10.0	881628.0	0.778787	Y
2	IC 410-288300/14	0.5	0.452527	10.0	871682.0	0.905055	Y
3	IC 410-288300/15	1.0	0.856256	10.0	860455.0	0.856256	Y
4	IC 410-288300/16	2.0	1.736353	10.0	872795.0	0.868176	Y
5	IC 410-288300/17	5.0	4.431439	10.0	886836.0	0.886288	Y
6	ICIS 410-288300/18	10.0	8.465537	10.0	900908.0	0.846554	Y
7	IC 410-288300/19	25.0	21.397383	10.0	926990.0	0.855895	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

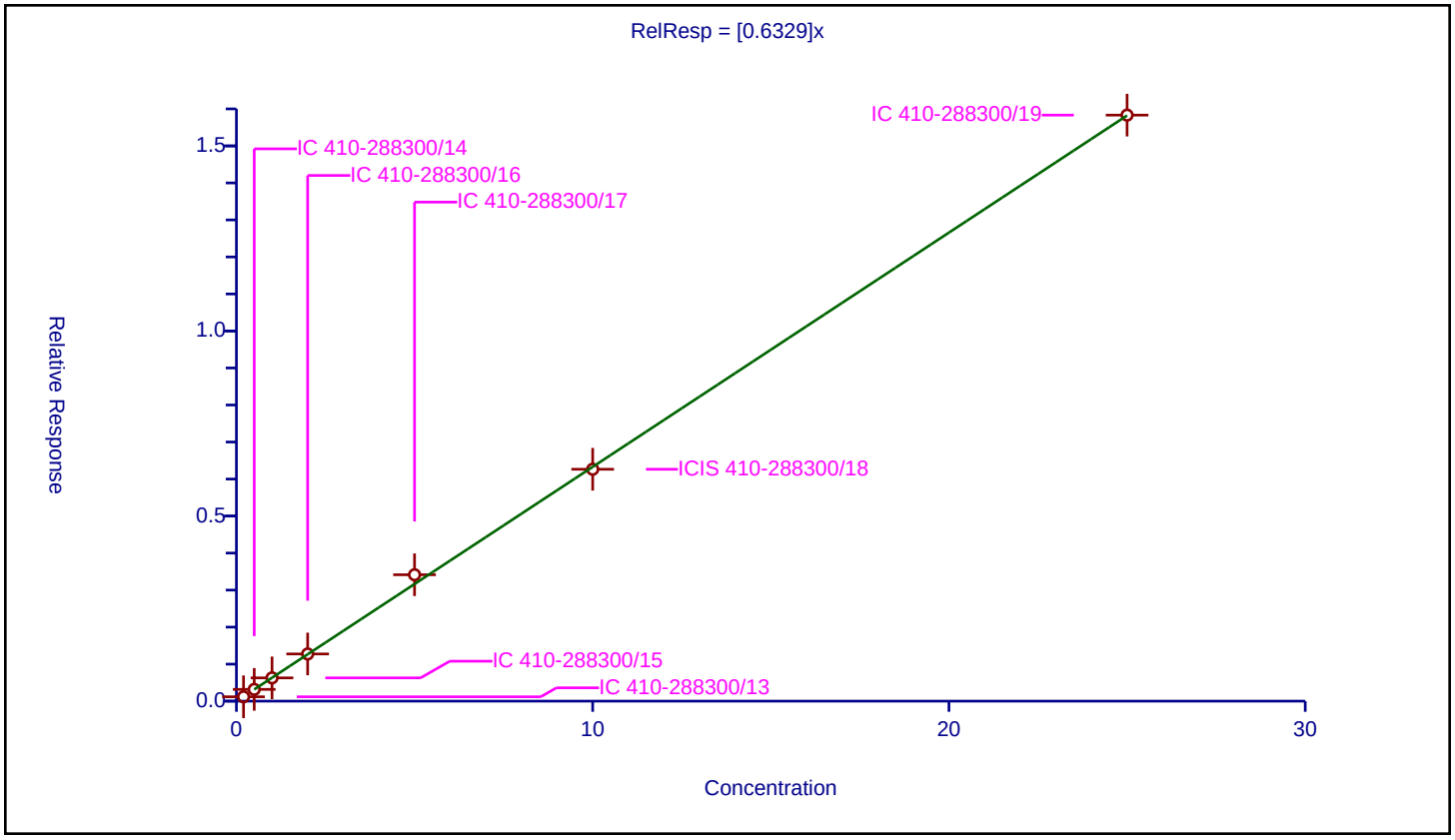
Curve Coefficients

Intercept:	0
Slope:	0.6329

Error Coefficients

Standard Error:	656000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.117294	10.0	881628.0	0.586472	Y
2	IC 410-288300/14	0.5	0.31749	10.0	871682.0	0.634979	Y
3	IC 410-288300/15	1.0	0.628551	10.0	860455.0	0.628551	Y
4	IC 410-288300/16	2.0	1.274767	10.0	872795.0	0.637383	Y
5	IC 410-288300/17	5.0	3.414904	10.0	886836.0	0.682981	Y
6	ICIS 410-288300/18	10.0	6.264558	10.0	900908.0	0.626456	Y
7	IC 410-288300/19	25.0	15.831649	10.0	926990.0	0.633266	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

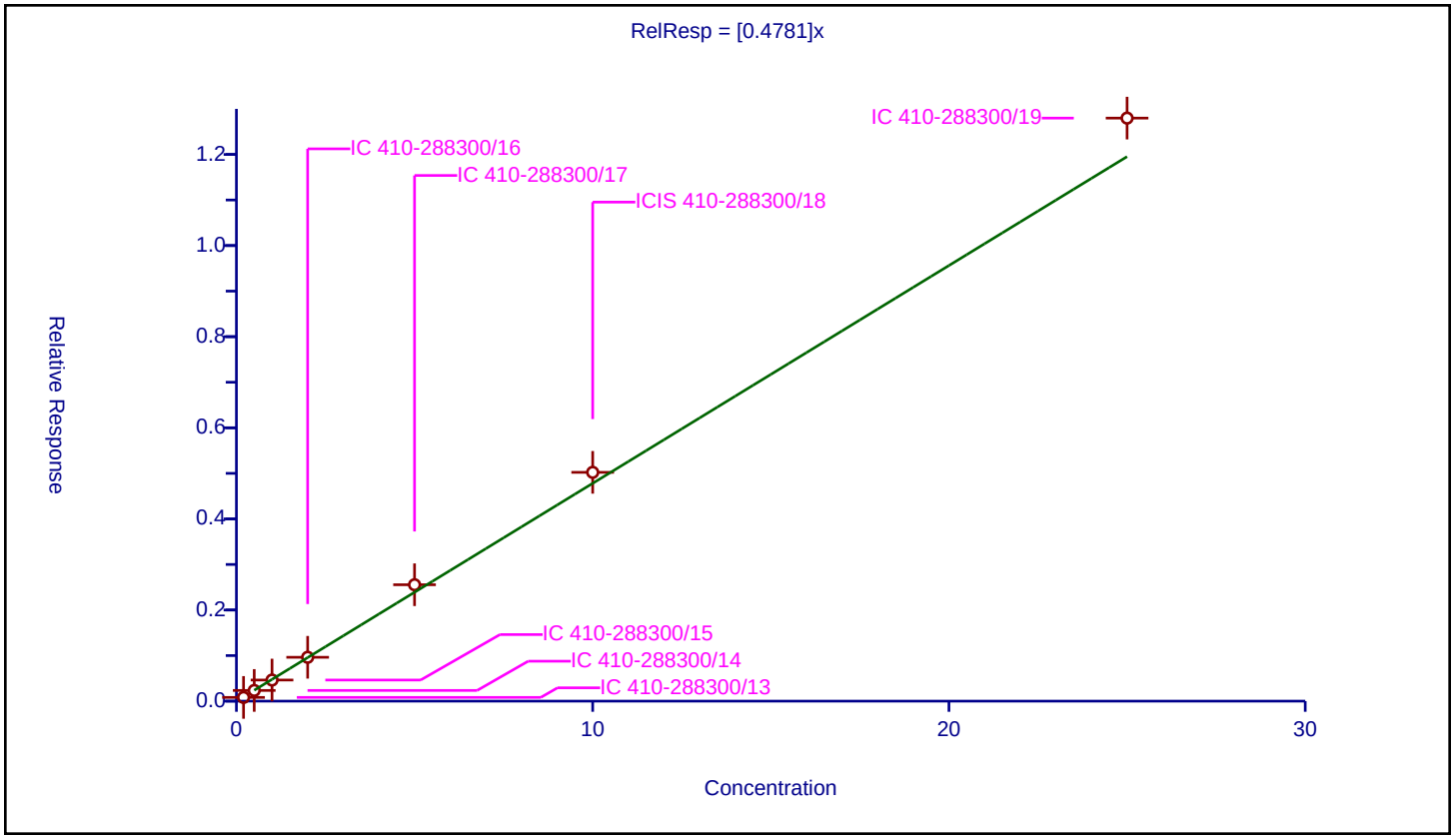
Curve Coefficients

Intercept:	0
Slope:	0.4781

Error Coefficients

Standard Error:	528000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.081656	10.0	881628.0	0.408279	Y
2	IC 410-288300/14	0.5	0.234512	10.0	871682.0	0.469024	Y
3	IC 410-288300/15	1.0	0.463139	10.0	860455.0	0.463139	Y
4	IC 410-288300/16	2.0	0.962334	10.0	872795.0	0.481167	Y
5	IC 410-288300/17	5.0	2.555016	10.0	886836.0	0.511003	Y
6	ICIS 410-288300/18	10.0	5.022022	10.0	900908.0	0.502202	Y
7	IC 410-288300/19	25.0	12.797625	10.0	926990.0	0.511905	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

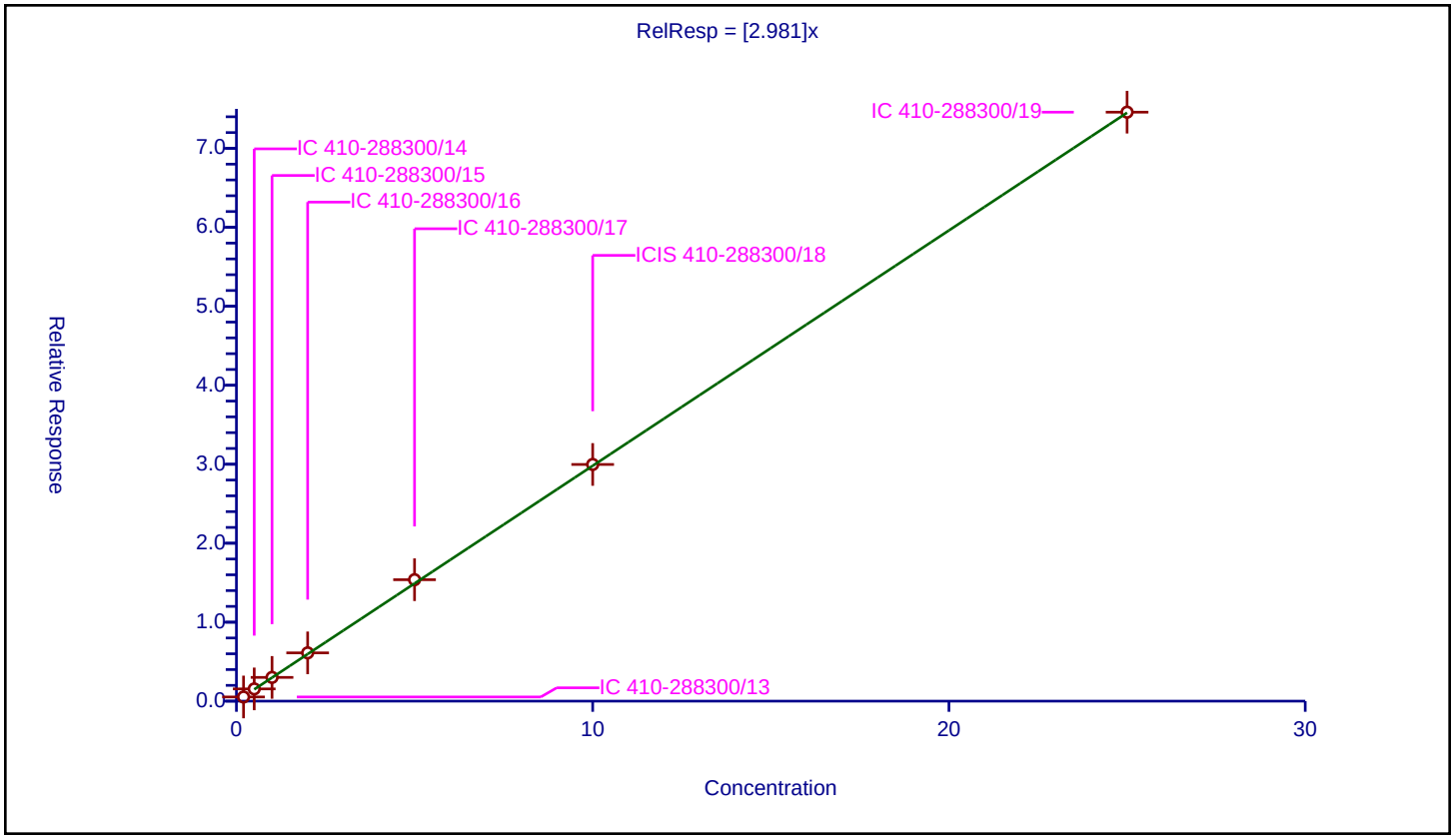
Curve Coefficients

Intercept:	0
Slope:	2.981

Error Coefficients

Standard Error:	3090000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.528908	10.0	881628.0	2.644539	Y
2	IC 410-288300/14	0.5	1.54998	10.0	871682.0	3.099961	Y
3	IC 410-288300/15	1.0	3.005329	10.0	860455.0	3.005329	Y
4	IC 410-288300/16	2.0	6.114746	10.0	872795.0	3.057373	Y
5	IC 410-288300/17	5.0	15.37945	10.0	886836.0	3.07589	Y
6	ICIS 410-288300/18	10.0	29.97386	10.0	900908.0	2.997386	Y
7	IC 410-288300/19	25.0	74.585918	10.0	926990.0	2.983437	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

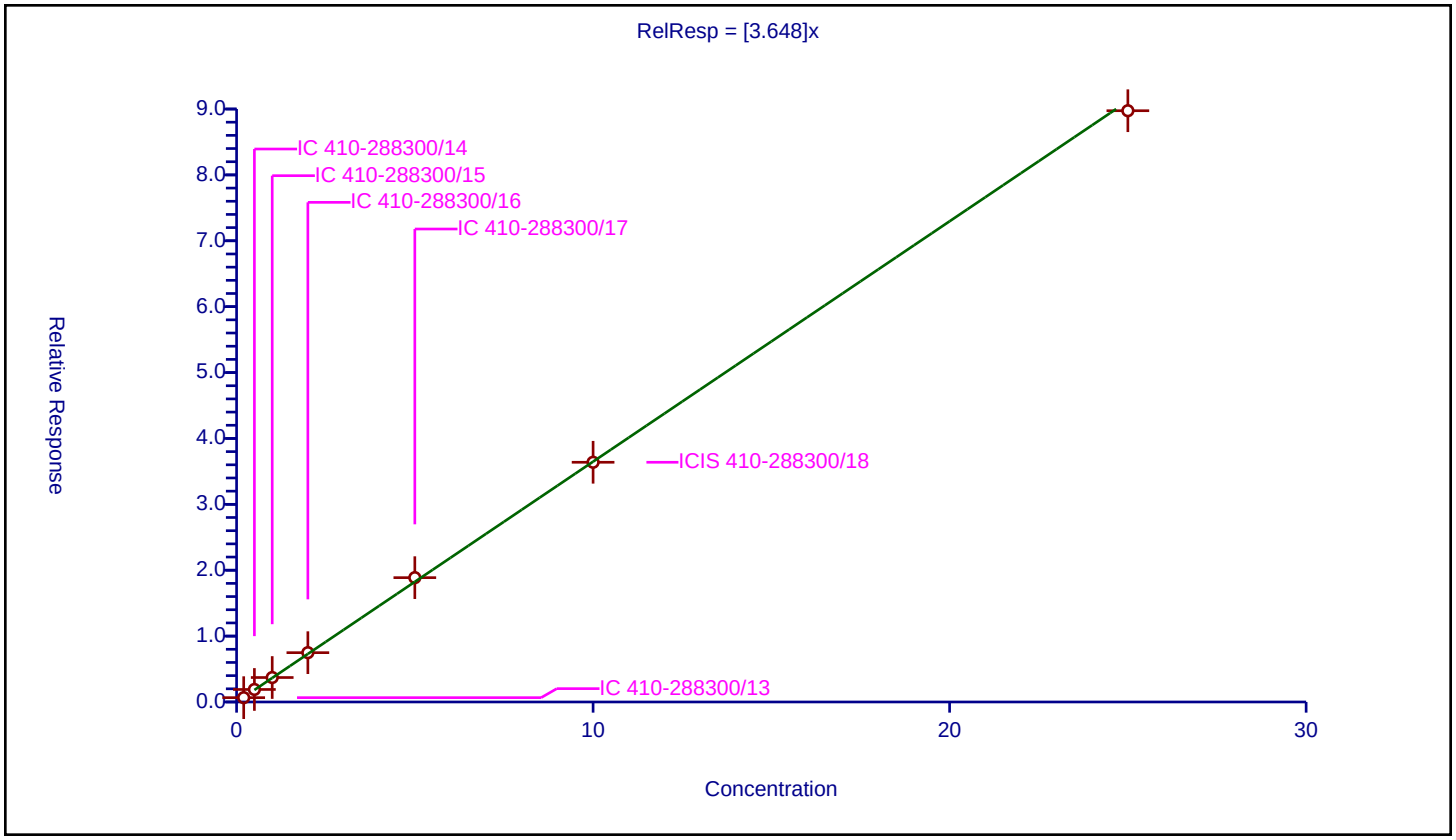
Curve Coefficients

Intercept:	0
Slope:	3.648

Error Coefficients

Standard Error:	3730000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.656025	10.0	881628.0	3.280125	Y
2	IC 410-288300/14	0.5	1.899741	10.0	871682.0	3.799482	Y
3	IC 410-288300/15	1.0	3.711722	10.0	860455.0	3.711722	Y
4	IC 410-288300/16	2.0	7.486122	10.0	872795.0	3.743061	Y
5	IC 410-288300/17	5.0	18.869171	10.0	886836.0	3.773834	Y
6	ICIS 410-288300/18	10.0	36.384303	10.0	900908.0	3.63843	Y
7	IC 410-288300/19	25.0	89.740386	10.0	926990.0	3.589615	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

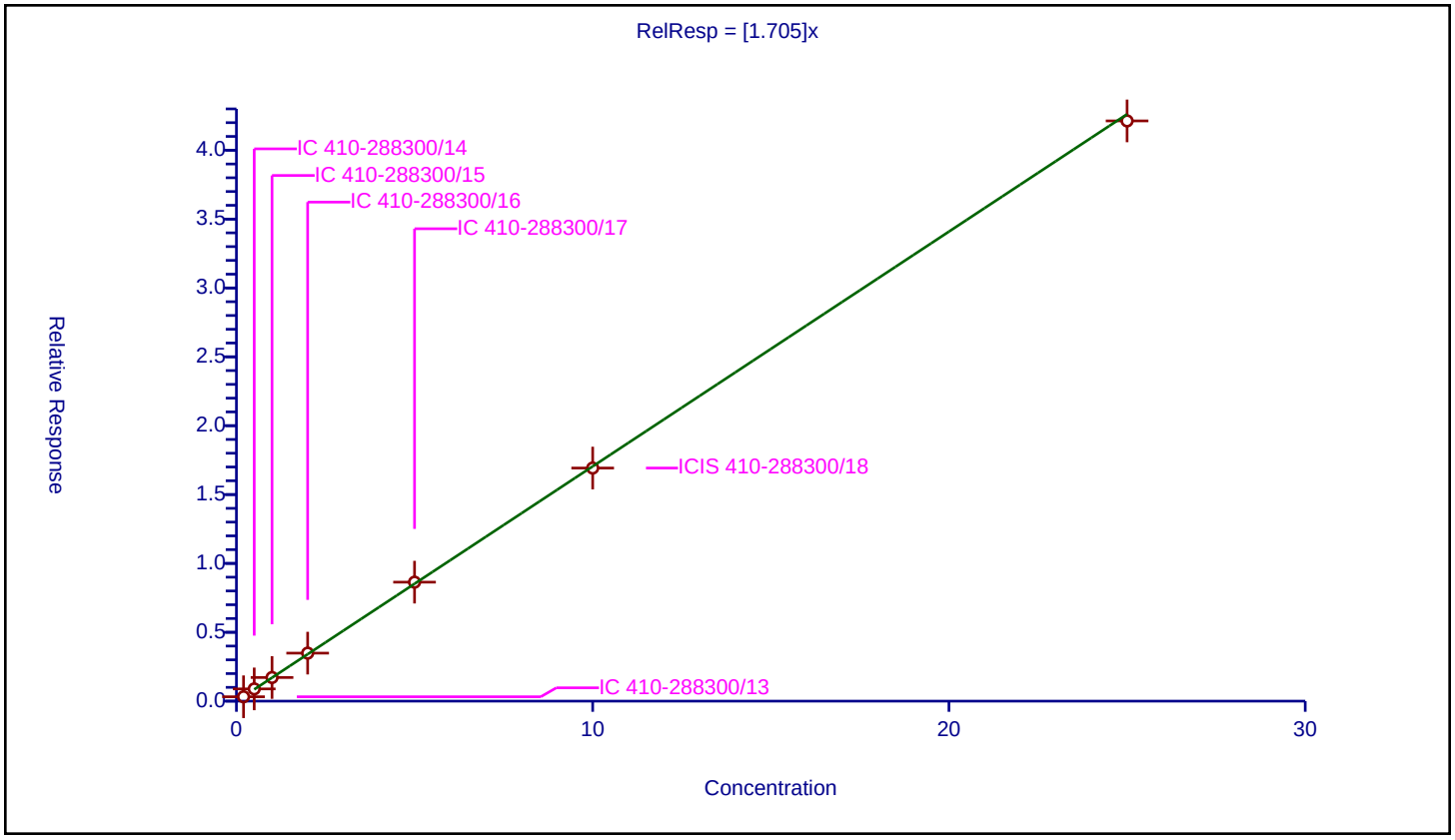
Curve Coefficients

Intercept:	0
Slope:	1.705

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.318116	10.0	881628.0	1.59058	Y
2	IC 410-288300/14	0.5	0.888719	10.0	871682.0	1.777437	Y
3	IC 410-288300/15	1.0	1.715941	10.0	860455.0	1.715941	Y
4	IC 410-288300/16	2.0	3.485584	10.0	872795.0	1.742792	Y
5	IC 410-288300/17	5.0	8.63835	10.0	886836.0	1.72767	Y
6	ICIS 410-288300/18	10.0	16.923681	10.0	900908.0	1.692368	Y
7	IC 410-288300/19	25.0	42.12861	10.0	926990.0	1.685144	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

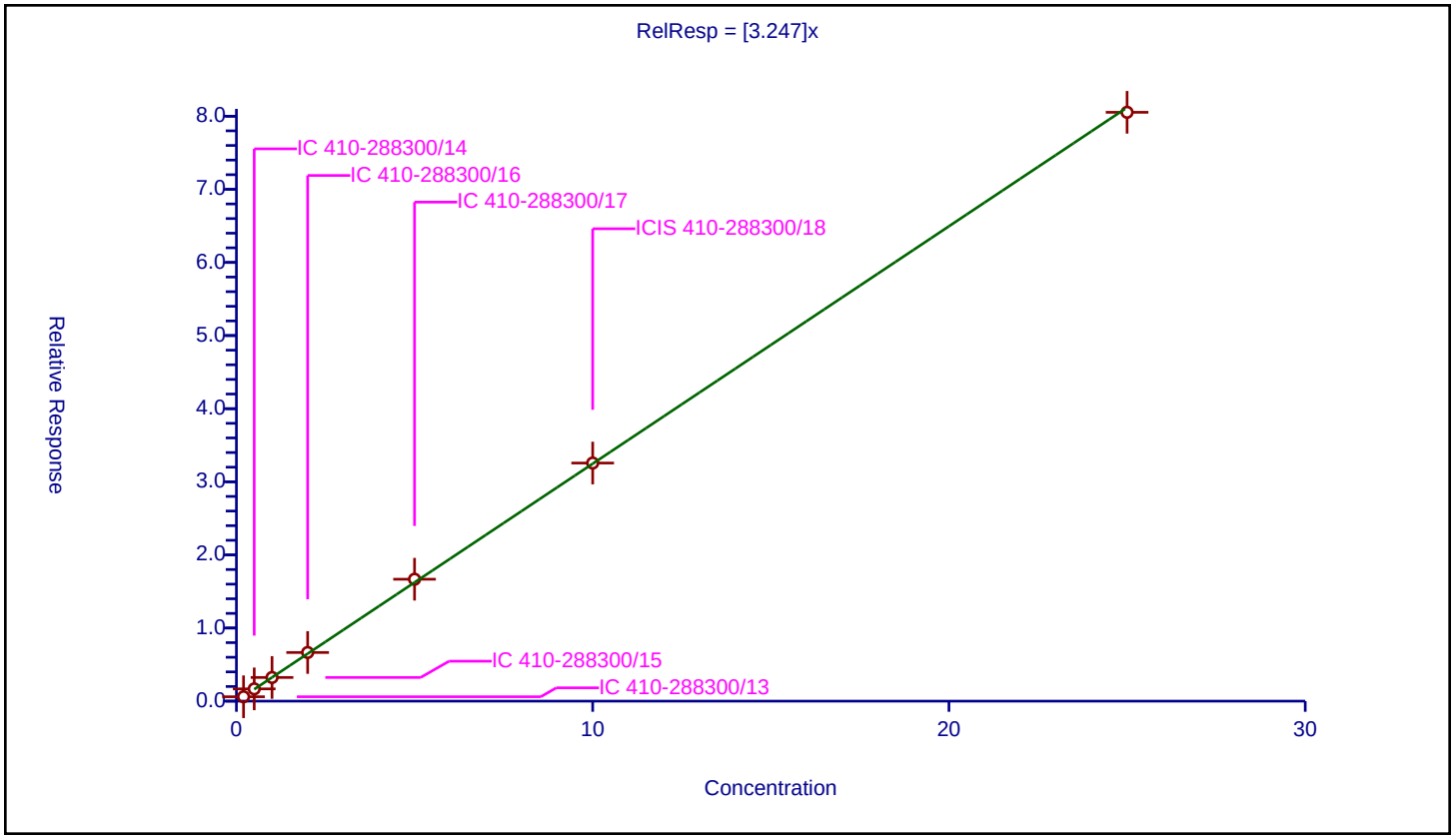
Curve Coefficients

Intercept:	0
Slope:	3.247

Error Coefficients

Standard Error:	3340000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.600752	10.0	881628.0	3.003761	Y
2	IC 410-288300/14	0.5	1.677183	10.0	871682.0	3.354365	Y
3	IC 410-288300/15	1.0	3.235056	10.0	860455.0	3.235056	Y
4	IC 410-288300/16	2.0	6.651814	10.0	872795.0	3.325907	Y
5	IC 410-288300/17	5.0	16.672632	10.0	886836.0	3.334526	Y
6	ICIS 410-288300/18	10.0	32.56378	10.0	900908.0	3.256378	Y
7	IC 410-288300/19	25.0	80.532303	10.0	926990.0	3.221292	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

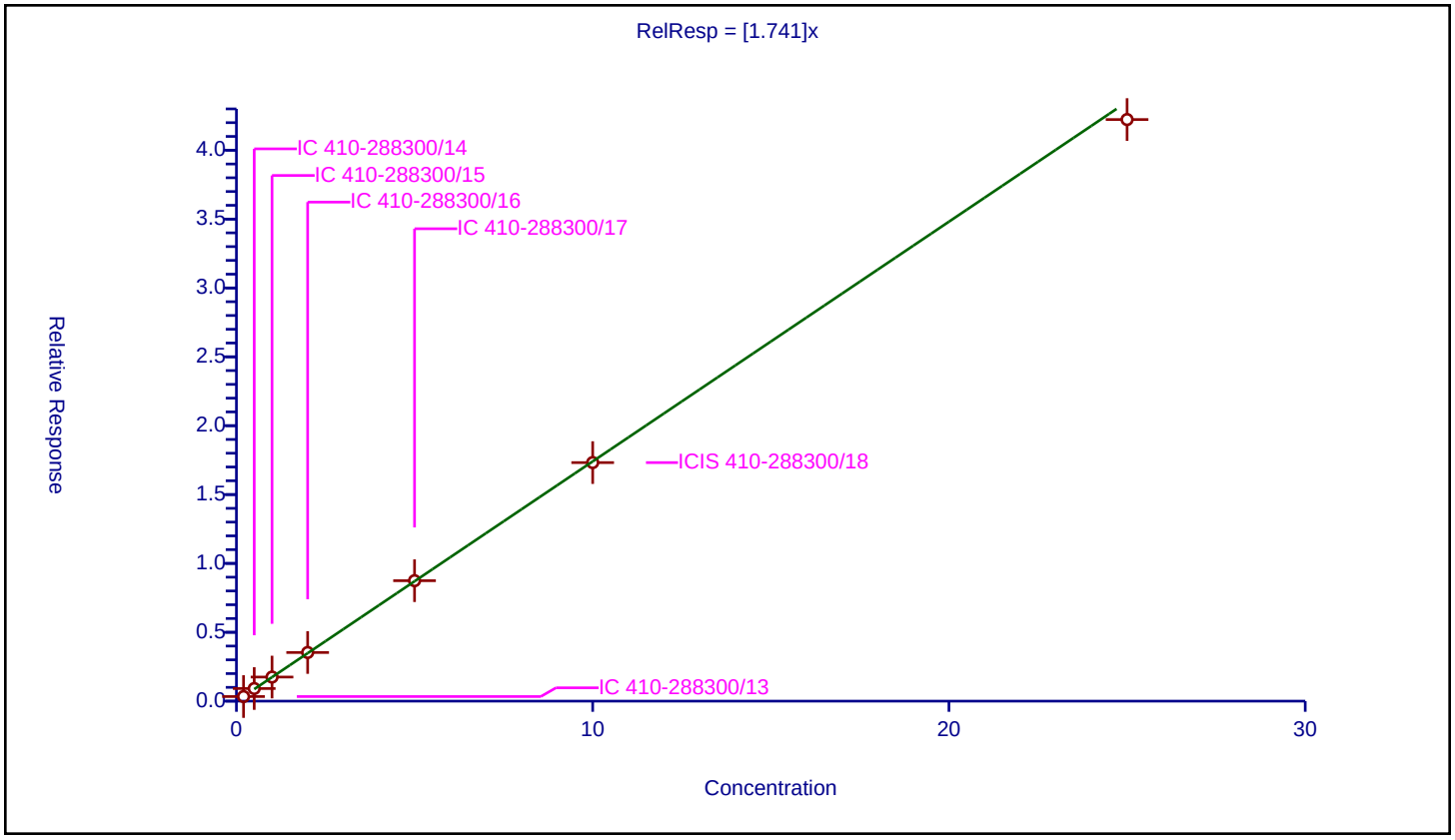
Curve Coefficients

Intercept:	0
Slope:	1.741

Error Coefficients

Standard Error:	1760000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.333292	10.0	881628.0	1.666462	Y
2	IC 410-288300/14	0.5	0.915701	10.0	871682.0	1.831402	Y
3	IC 410-288300/15	1.0	1.749818	10.0	860455.0	1.749818	Y
4	IC 410-288300/16	2.0	3.531757	10.0	872795.0	1.765879	Y
5	IC 410-288300/17	5.0	8.7458	10.0	886836.0	1.74916	Y
6	ICIS 410-288300/18	10.0	17.32047	10.0	900908.0	1.732047	Y
7	IC 410-288300/19	25.0	42.225612	10.0	926990.0	1.689024	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

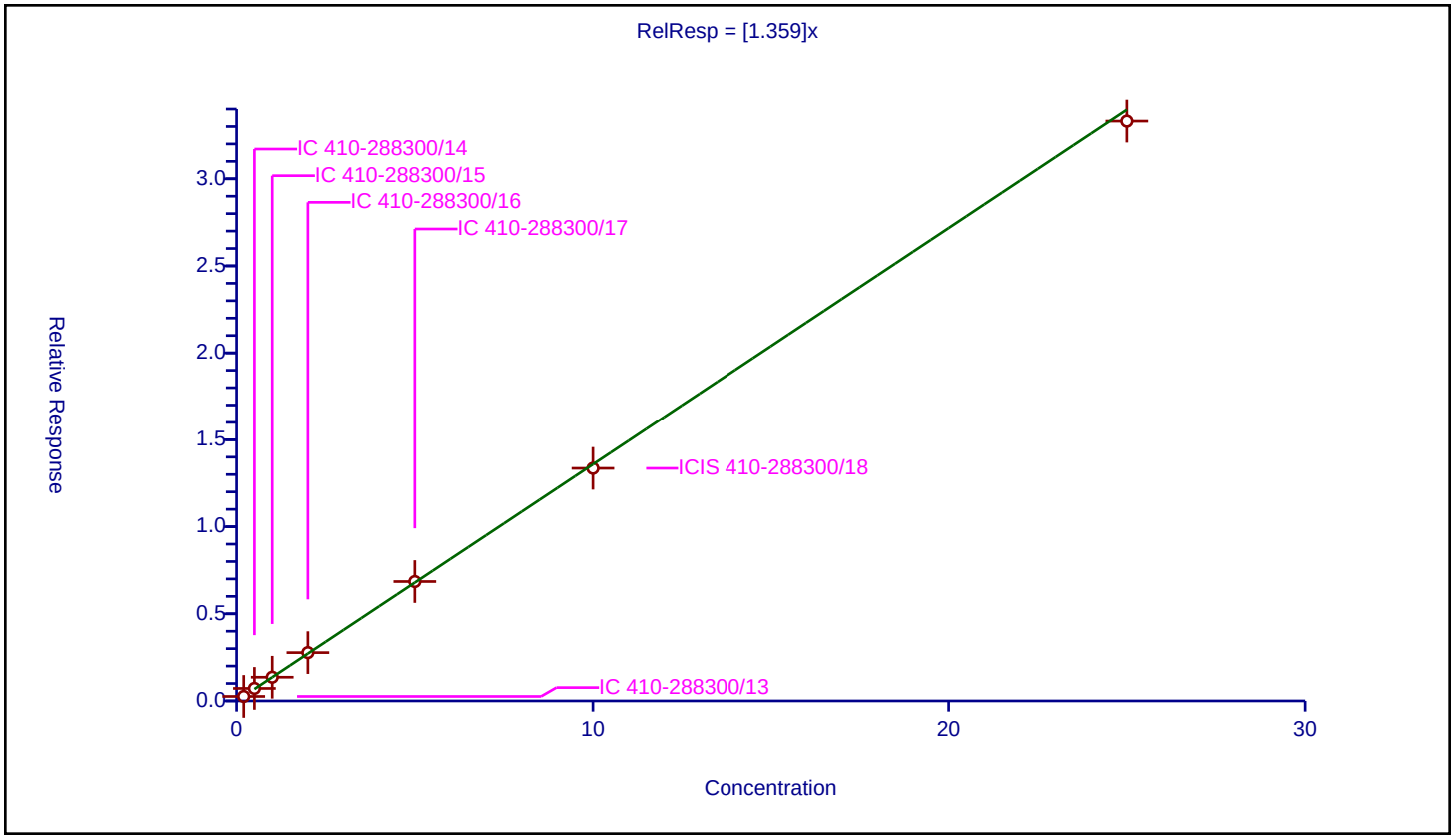
Curve Coefficients

Intercept:	0
Slope:	1.359

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.258	10.0	881628.0	1.29	Y
2	IC 410-288300/14	0.5	0.717268	10.0	871682.0	1.434537	Y
3	IC 410-288300/15	1.0	1.360594	10.0	860455.0	1.360594	Y
4	IC 410-288300/16	2.0	2.772644	10.0	872795.0	1.386322	Y
5	IC 410-288300/17	5.0	6.851921	10.0	886836.0	1.370384	Y
6	ICIS 410-288300/18	10.0	13.358057	10.0	900908.0	1.335806	Y
7	IC 410-288300/19	25.0	33.310014	10.0	926990.0	1.332401	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

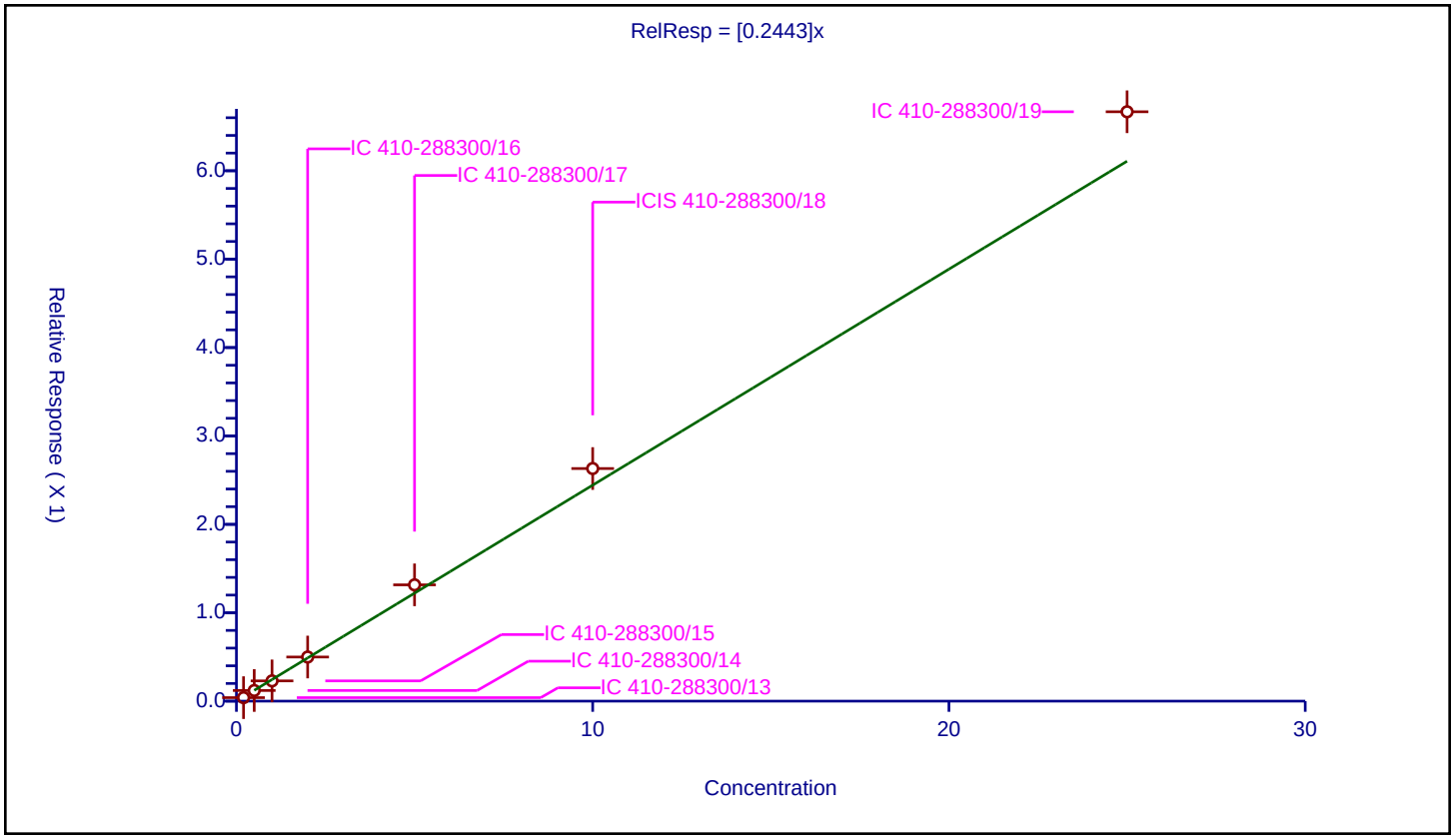
Curve Coefficients

Intercept:	0
Slope:	0.2443

Error Coefficients

Standard Error:	275000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.039575	10.0	881628.0	0.197873	Y
2	IC 410-288300/14	0.5	0.120422	10.0	871682.0	0.240845	Y
3	IC 410-288300/15	1.0	0.229228	10.0	860455.0	0.229228	Y
4	IC 410-288300/16	2.0	0.499029	10.0	872795.0	0.249514	Y
5	IC 410-288300/17	5.0	1.31561	10.0	886836.0	0.263122	Y
6	ICIS 410-288300/18	10.0	2.631367	10.0	900908.0	0.263137	Y
7	IC 410-288300/19	25.0	6.667451	10.0	926990.0	0.266698	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

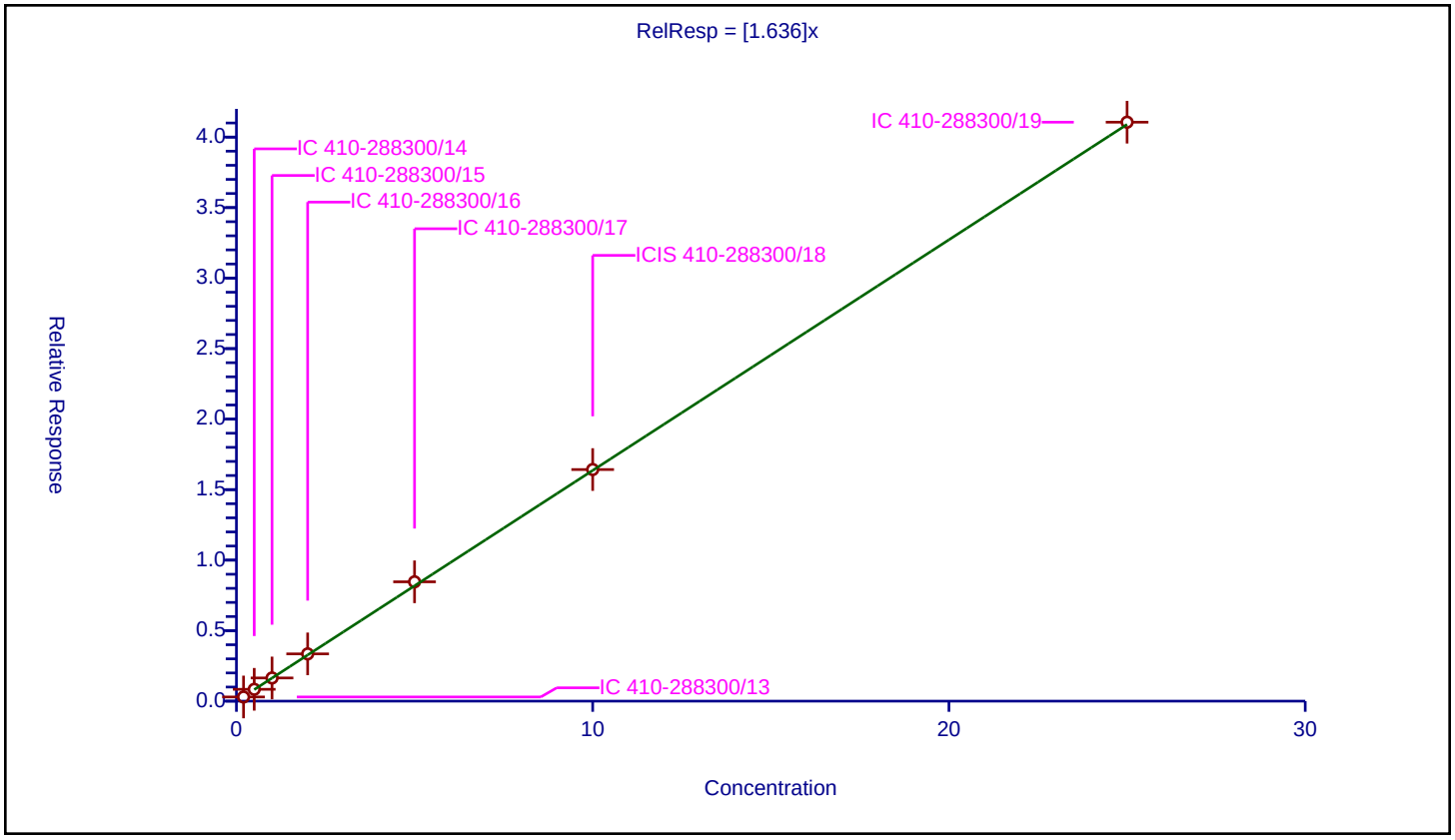
Curve Coefficients

Intercept:	0
Slope:	1.636

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.295011	10.0	881628.0	1.475055	Y
2	IC 410-288300/14	0.5	0.840008	10.0	871682.0	1.680016	Y
3	IC 410-288300/15	1.0	1.643503	10.0	860455.0	1.643503	Y
4	IC 410-288300/16	2.0	3.351703	10.0	872795.0	1.675852	Y
5	IC 410-288300/17	5.0	8.462241	10.0	886836.0	1.692448	Y
6	ICIS 410-288300/18	10.0	16.423997	10.0	900908.0	1.6424	Y
7	IC 410-288300/19	25.0	41.056743	10.0	926990.0	1.64227	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

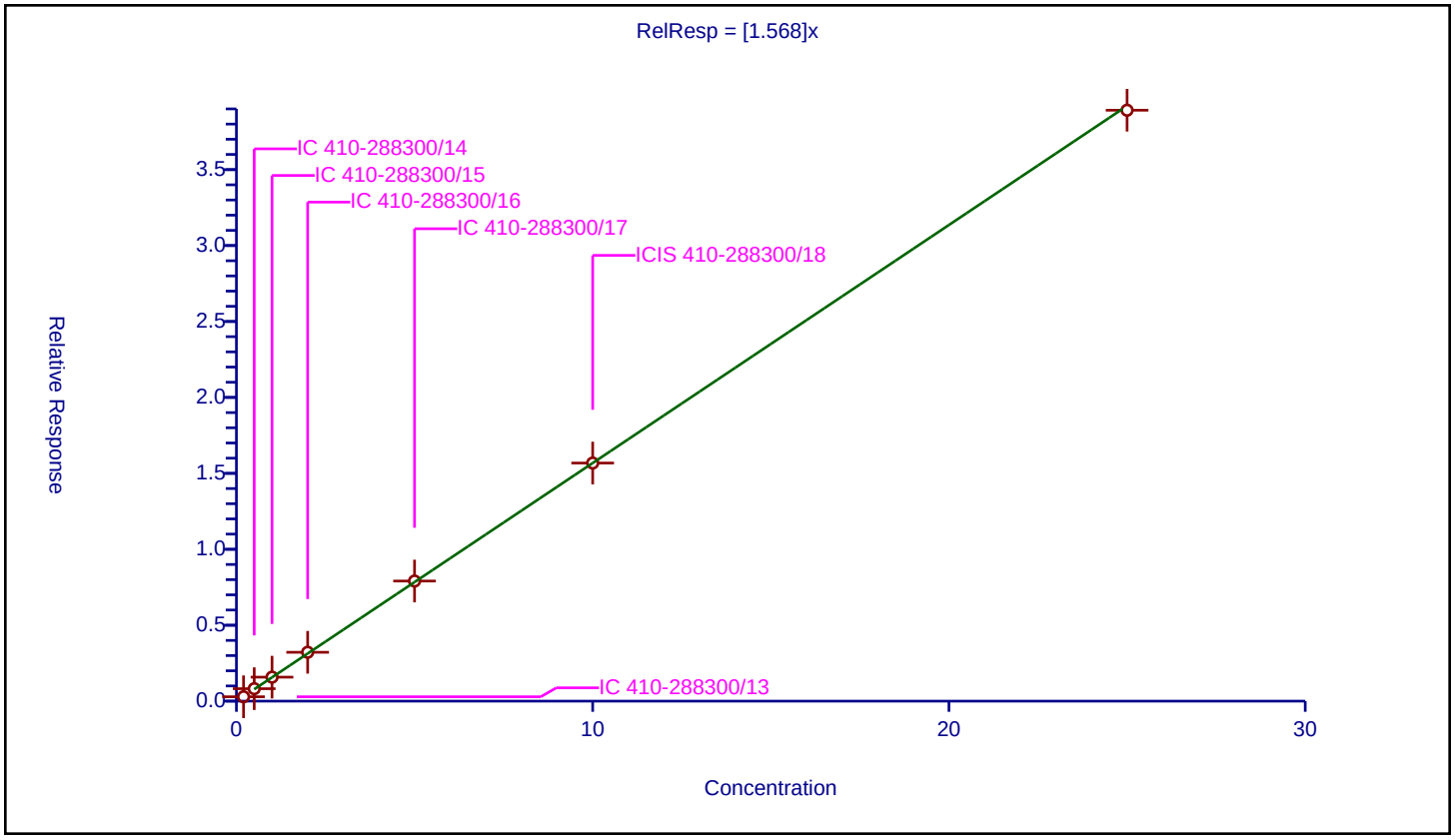
Curve Coefficients

Intercept:	0
Slope:	1.568

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.288137	10.0	881628.0	1.440687	Y
2	IC 410-288300/14	0.5	0.819691	10.0	871682.0	1.639382	Y
3	IC 410-288300/15	1.0	1.579618	10.0	860455.0	1.579618	Y
4	IC 410-288300/16	2.0	3.218121	10.0	872795.0	1.609061	Y
5	IC 410-288300/17	5.0	7.908734	10.0	886836.0	1.581747	Y
6	ICIS 410-288300/18	10.0	15.679359	10.0	900908.0	1.567936	Y
7	IC 410-288300/19	25.0	38.913063	10.0	926990.0	1.556523	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

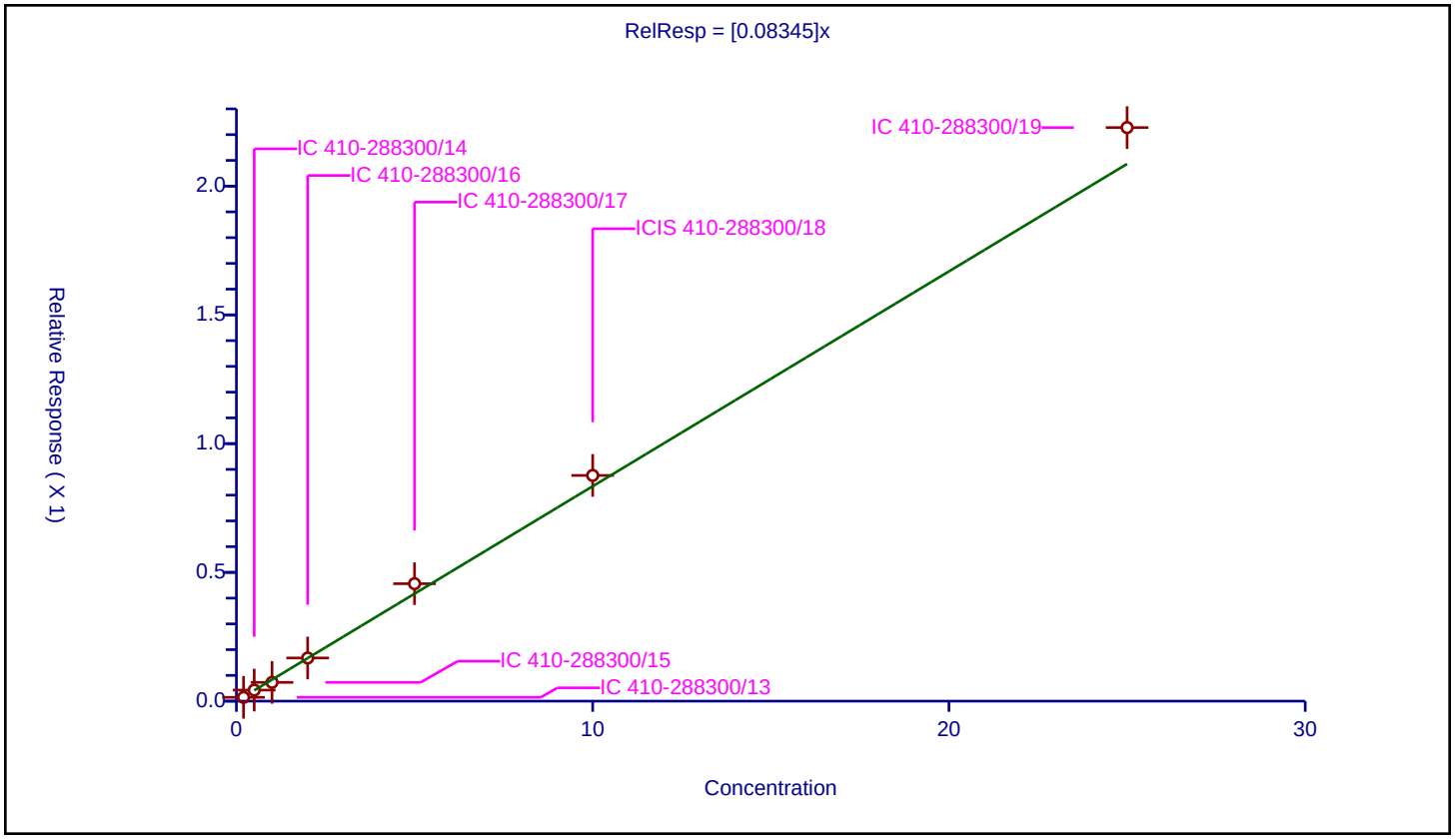
Curve Coefficients

Intercept:	0
Slope:	0.08345

Error Coefficients

Standard Error:	92000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.014689	10.0	881628.0	0.073444	Y
2	IC 410-288300/14	0.5	0.04302	10.0	871682.0	0.086041	Y
3	IC 410-288300/15	1.0	0.072915	10.0	860455.0	0.072915	Y
4	IC 410-288300/16	2.0	0.167588	10.0	872795.0	0.083794	Y
5	IC 410-288300/17	5.0	0.456048	10.0	886836.0	0.09121	Y
6	ICIS 410-288300/18	10.0	0.876538	10.0	900908.0	0.087654	Y
7	IC 410-288300/19	25.0	2.227349	10.0	926990.0	0.089094	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

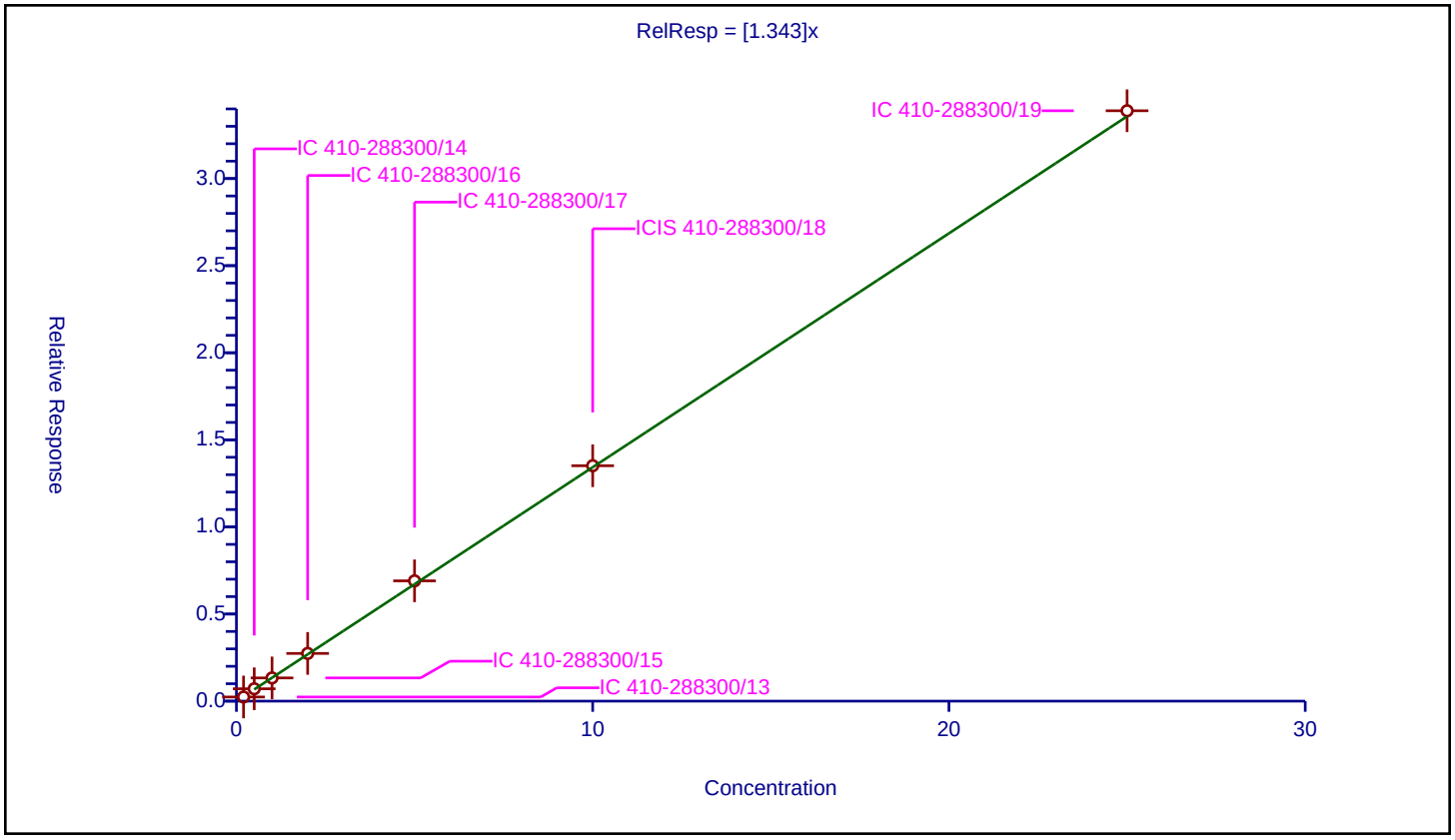
Curve Coefficients

Intercept:	0
Slope:	1.343

Error Coefficients

Standard Error:	1400000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.237356	10.0	881628.0	1.186782	Y
2	IC 410-288300/14	0.5	0.710638	10.0	871682.0	1.421275	Y
3	IC 410-288300/15	1.0	1.33319	10.0	860455.0	1.33319	Y
4	IC 410-288300/16	2.0	2.739406	10.0	872795.0	1.369703	Y
5	IC 410-288300/17	5.0	6.905099	10.0	886836.0	1.38102	Y
6	ICIS 410-288300/18	10.0	13.514876	10.0	900908.0	1.351488	Y
7	IC 410-288300/19	25.0	33.89234	10.0	926990.0	1.355694	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

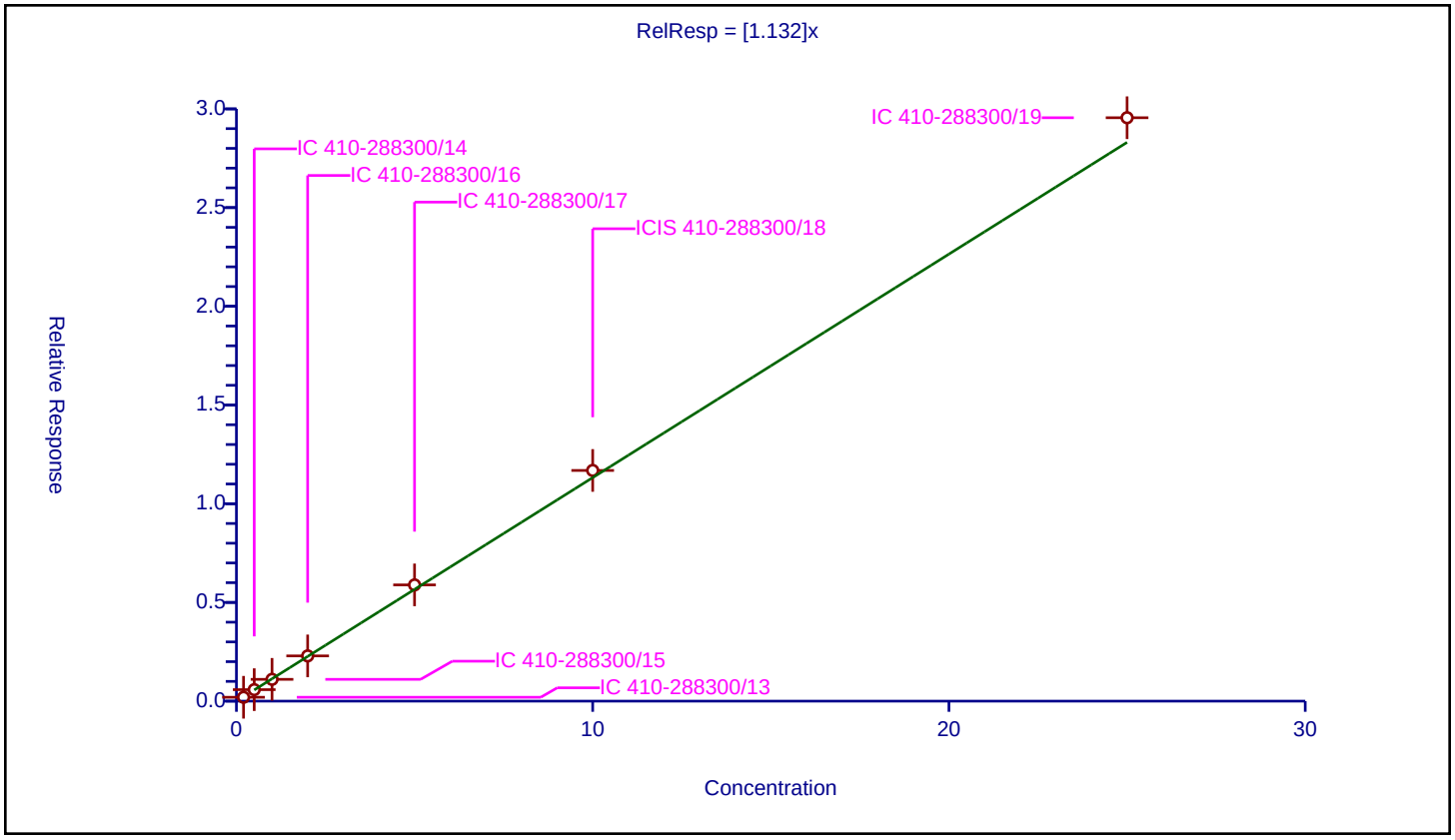
Curve Coefficients

Intercept:	0
Slope:	1.132

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.196511	10.0	881628.0	0.982557	Y
2	IC 410-288300/14	0.5	0.58238	10.0	871682.0	1.16476	Y
3	IC 410-288300/15	1.0	1.104032	10.0	860455.0	1.104032	Y
4	IC 410-288300/16	2.0	2.291913	10.0	872795.0	1.145956	Y
5	IC 410-288300/17	5.0	5.88783	10.0	886836.0	1.177566	Y
6	ICIS 410-288300/18	10.0	11.686066	10.0	900908.0	1.168607	Y
7	IC 410-288300/19	25.0	29.552714	10.0	926990.0	1.182109	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

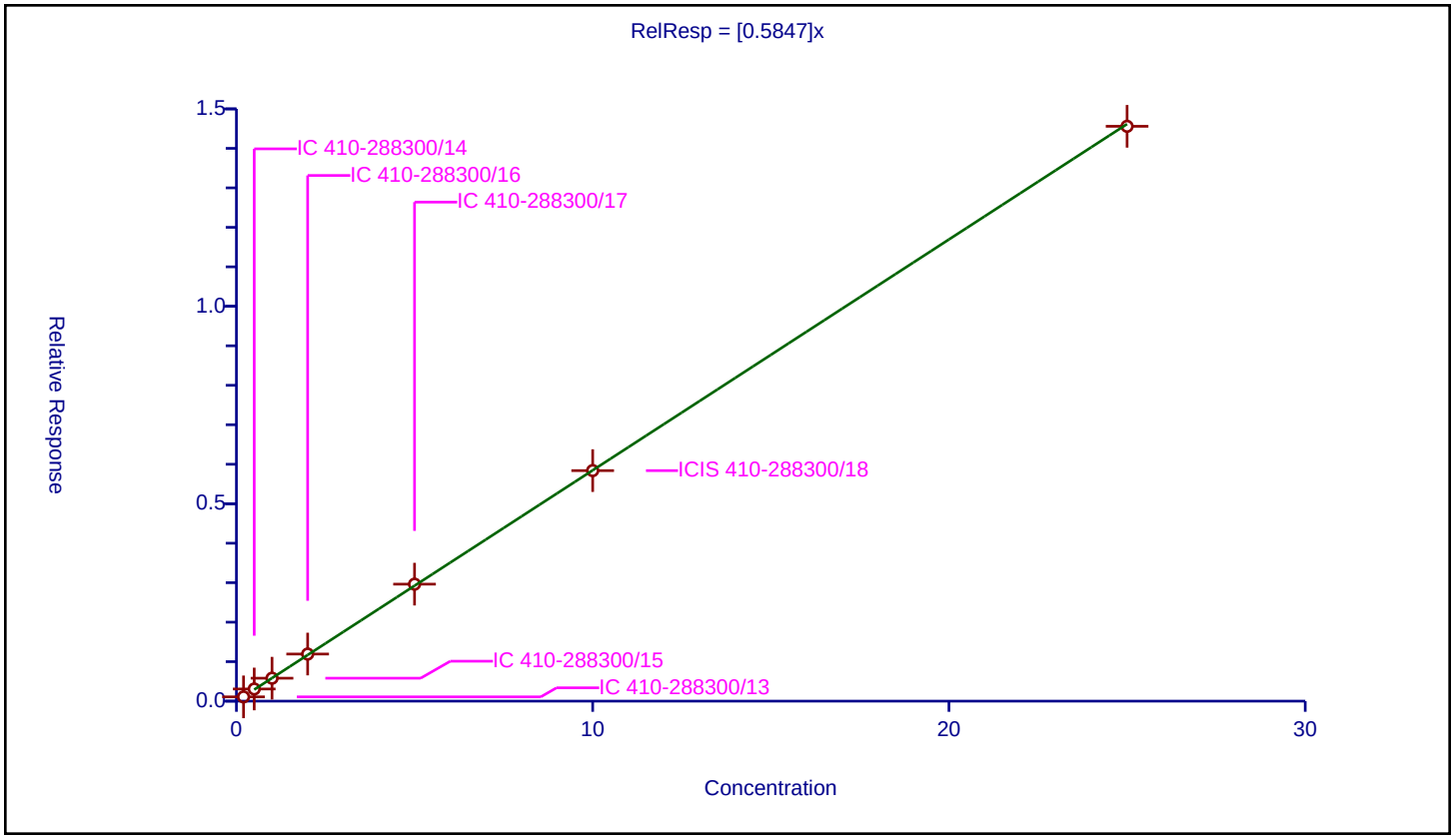
Curve Coefficients

Intercept:	0
Slope:	0.5847

Error Coefficients

Standard Error:	603000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.108107	10.0	881628.0	0.540534	Y
2	IC 410-288300/14	0.5	0.307922	10.0	871682.0	0.615844	Y
3	IC 410-288300/15	1.0	0.580972	10.0	860455.0	0.580972	Y
4	IC 410-288300/16	2.0	1.192835	10.0	872795.0	0.596417	Y
5	IC 410-288300/17	5.0	2.963062	10.0	886836.0	0.592612	Y
6	ICIS 410-288300/18	10.0	5.838665	10.0	900908.0	0.583866	Y
7	IC 410-288300/19	25.0	14.55869	10.0	926990.0	0.582348	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

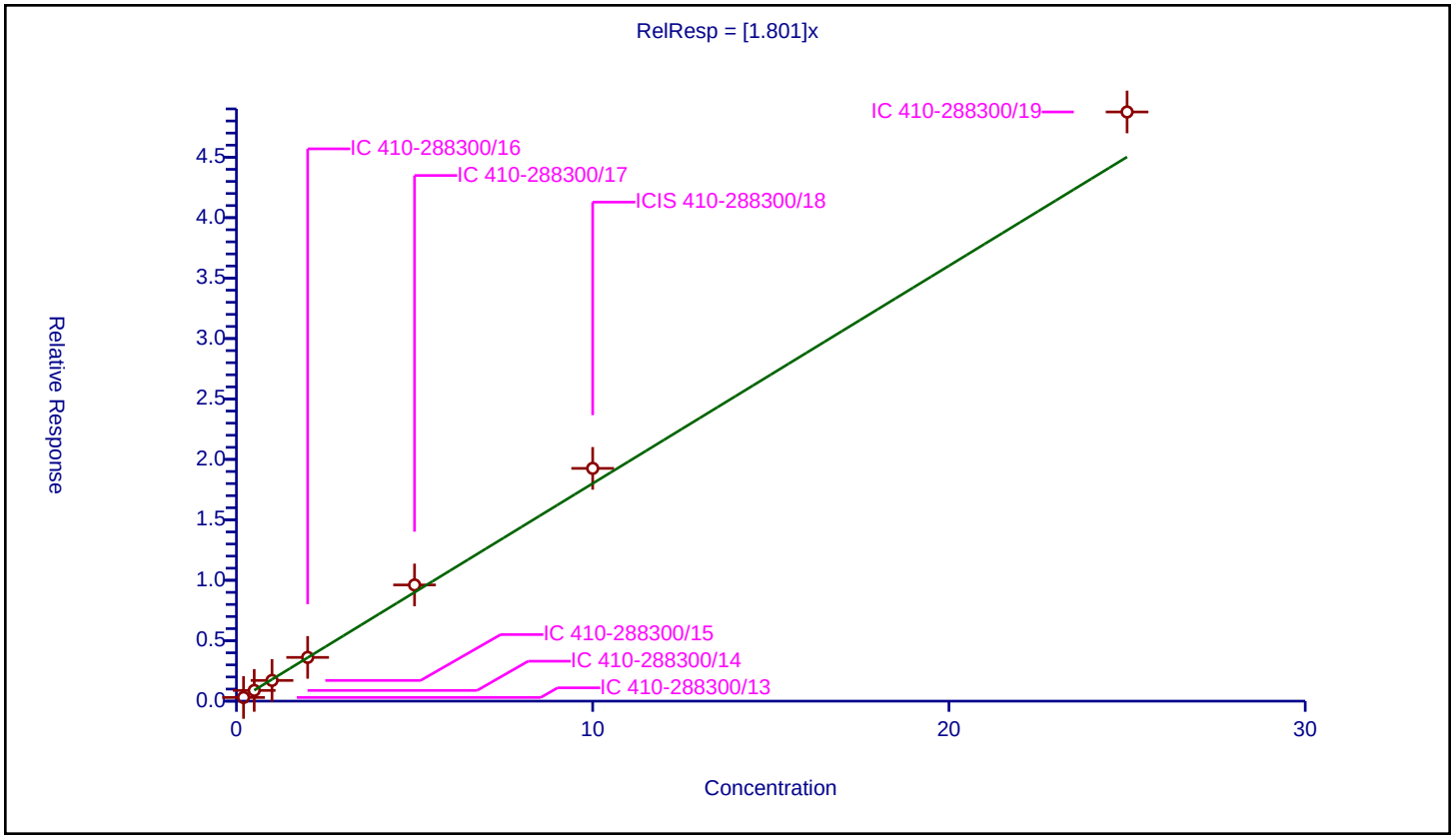
Curve Coefficients

Intercept:	0
Slope:	1.801

Error Coefficients

Standard Error:	2010000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.302996	10.0	881628.0	1.514981	Y
2	IC 410-288300/14	0.5	0.885851	10.0	871682.0	1.771701	Y
3	IC 410-288300/15	1.0	1.712315	10.0	860455.0	1.712315	Y
4	IC 410-288300/16	2.0	3.619246	10.0	872795.0	1.809623	Y
5	IC 410-288300/17	5.0	9.613266	10.0	886836.0	1.922653	Y
6	ICIS 410-288300/18	10.0	19.257782	10.0	900908.0	1.925778	Y
7	IC 410-288300/19	25.0	48.745974	10.0	926990.0	1.949839	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

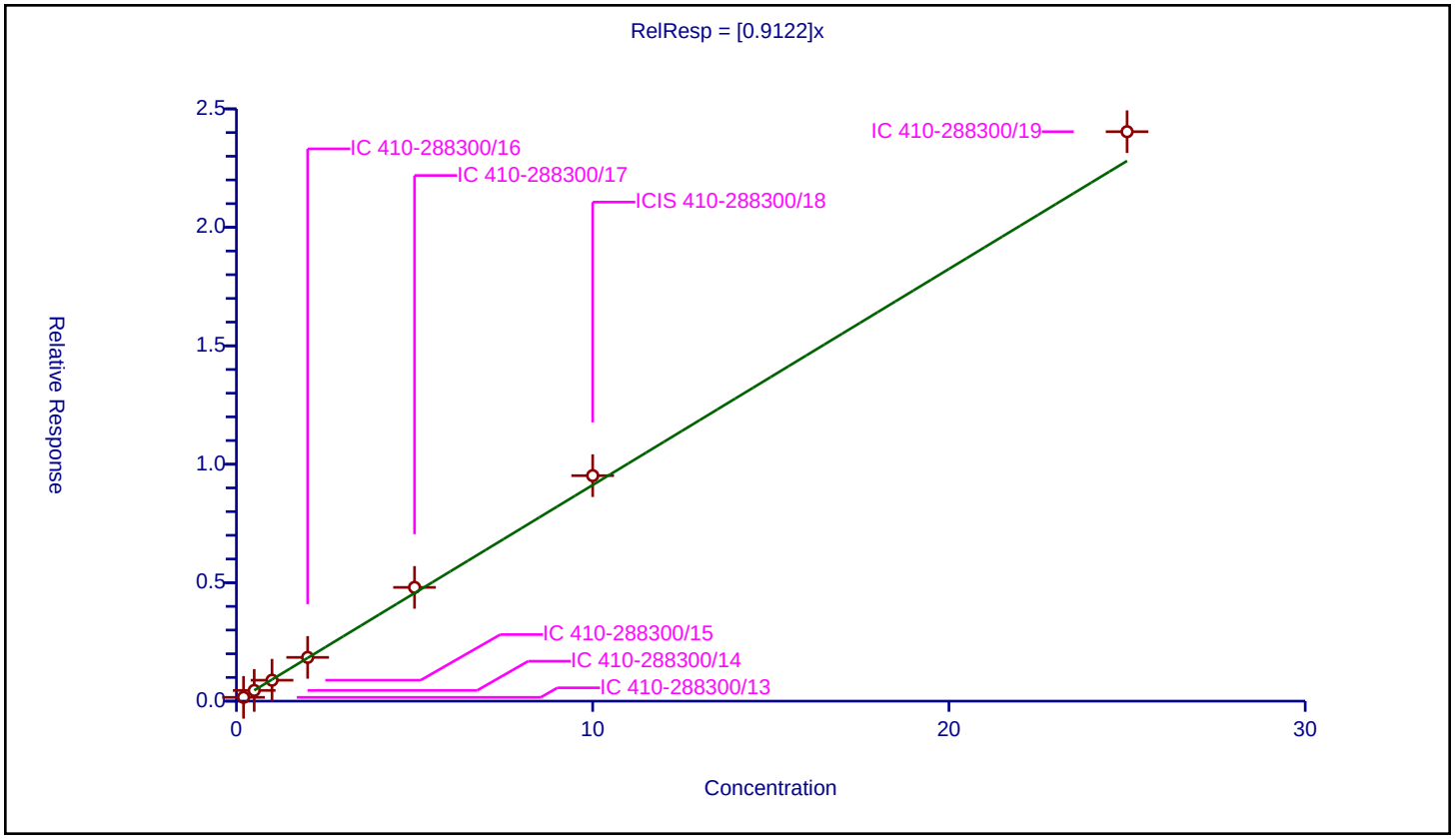
Curve Coefficients

Intercept:	0
Slope:	0.9122

Error Coefficients

Standard Error:	993000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.160204	10.0	881628.0	0.801018	Y
2	IC 410-288300/14	0.5	0.45208	10.0	871682.0	0.90416	Y
3	IC 410-288300/15	1.0	0.883335	10.0	860455.0	0.883335	Y
4	IC 410-288300/16	2.0	1.84631	10.0	872795.0	0.923155	Y
5	IC 410-288300/17	5.0	4.801609	10.0	886836.0	0.960322	Y
6	ICIS 410-288300/18	10.0	9.518641	10.0	900908.0	0.951864	Y
7	IC 410-288300/19	25.0	24.03712	10.0	926990.0	0.961485	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 13:45 Calibration End Date: 08/16/2022 15:58 Calibration ID: 41908

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-286414/3	GG16X02.D
Level 2	IC 410-286414/4	GG16X03.D
Level 3	IC 410-286414/5	GG16X04.D
Level 4	IC 410-286414/6	GG16X05.D
Level 5	IC 410-286414/7	GG16X06.D
Level 6	IC 410-286414/8	GG16X07.D
Level 7	IC 410-286414/9	GG16X08.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.2881 0.2665	0.4105 0.2778	0.2818	0.2659	0.2644	Ave		0.2936				17.8		20.0			
Methoxymethane	+++++ 0.2697	0.4320 0.2507	0.2665	0.2674	0.2659	Lin	0.0765	0.2495							0.9990		0.9900
Acetonitrile	+++++ 1.0459	+++++ 0.8898	1.0272	1.0301	1.1011	Ave		1.0188				7.7		20.0			
Vinyl acetate	+++++ 0.3423	+++++ 0.2945	0.2933	0.2965	0.3448	Ave		0.3143				8.5		20.0			
Ethyl acetate	+++++ 0.1547	0.2774 0.1360	0.1334	0.1437	0.1596	Ave		0.1675				32.7	*	20.0			
2-Chloroethyl vinyl ether	0.1009 0.1189	0.1522 0.1270	0.1087	0.1082	0.1167	Ave		0.1189				14.2		20.0			
cis-1,4-Dichloro-2-butene	+++++ 6.4657	+++++ 7.6207	3.9302	4.5425	5.3451	Lin1	-10.15	7.4487							0.9910		0.9900
Cyclohexanone	+++++ 0.3217	0.5237 0.3597	0.3097	0.3006	0.3353	Lin1	1.2229	0.3428							0.9920		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 13:45 Calibration End Date: 08/16/2022 15:58 Calibration ID: 41908

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-286414/3	GG16X02.D
Level 2	IC 410-286414/4	GG16X03.D
Level 3	IC 410-286414/5	GG16X04.D
Level 4	IC 410-286414/6	GG16X05.D
Level 5	IC 410-286414/7	GG16X06.D
Level 6	IC 410-286414/8	GG16X07.D
Level 7	IC 410-286414/9	GG16X08.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorodifluoromethane	FB	Ave	12996 599209	46361 1480233	62611	120688	294272	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methoxymethane	FB	Lin	+++++ 606235	48787 1335629	59201	121366	295987	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	TBAd 10	Ave	+++++ 128309	+++++ 257332	13830	26945	73543	+++++ 50.0	+++++ 125	5.00	10.0	25.0
Vinyl acetate	FB	Ave	+++++ 769470	+++++ 1569029	65156	134586	383773	+++++ 10.0	+++++ 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Ave	+++++ 347687	31328 724549	29643	65212	177642	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Ave	4553 267190	17190 676748	24152	49124	129899	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,4-Dichloro-2-butene	TBAd 10	Lin1	+++++ 317201	+++++ 881331	21161	47518	142762	+++++ 20.0	+++++ 50.0	2.00	4.00	10.00
Cyclohexanone	TBAd 10	Lin1	+++++ 394658	36639 1040163	41695	78628	223980	+++++ 500	25.0 1250	50.0	100	250

Curve Type Legend

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 13:45 Calibration End Date: 08/16/2022 15:58 Calibration ID: 41908

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-286414/3	GG16X02.D
Level 2	IC 410-286414/4	GG16X03.D
Level 3	IC 410-286414/5	GG16X04.D
Level 4	IC 410-286414/6	GG16X05.D
Level 5	IC 410-286414/7	GG16X06.D
Level 6	IC 410-286414/8	GG16X07.D
Level 7	IC 410-286414/9	GG16X08.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorodifluoromethane	-1.9 -5.4	39.8 *	-4.0	-9.4	-10.0	-9.2	50 30	30	30	30	30	30
Methoxymethane	+++++ -0.7	11.9	-23.8	-8.1	0.5	5.0	30	50	30	30	30	30
Acetonitrile	+++++ -12.7	+++++	0.8	1.1	8.1	2.7	30		50	30	30	30
Vinyl acetate	+++++ -6.3	+++++	-6.7	-5.6	9.7	8.9	30		50	30	30	30
Ethyl acetate	+++++ -18.8	65.7 *	-20.3	-14.2	-4.7	-7.6	30	50	30	30	30	30
2-Chloroethyl vinyl ether	-15.2 6.8	28.0	-8.6	-9.0	-1.9	-0.1	50 30	30	30	30	30	30
cis-1,4-Dichloro-2-butene	+++++ 5.0	+++++	20.9	-4.9	-14.6	-6.4	30		50	30	30	30
Cyclohexanone	+++++ 4.6	38.5	-16.8	-15.9	-3.6	-6.9	30	50	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X02.D
Lims ID: IC std1sm
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Aug-2022 13:45:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-003
Misc. Info.: IC STD1SM
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub51

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:12 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 16-Aug-2022 14:34:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.867	1.867	0.000	87	5227	0.2000	0.1850	
3 Chlorodifluoromethane	51	1.916	1.916	0.000	96	12996	0.2000	0.1963	
4 Dimethyl ether	45	1.977	1.983	-0.006	96	15783	0.2000	-0.0261	M
8 2-Chloro-1,1,1-Trifluoroethane	118	2.288	2.294	-0.006	33	13045	0.2000	0.1756	
26 Acetonitrile	41	3.891	3.873	0.018	63	4930	1.00	1.68	M
* 30 t-Butyl alcohol-d10 (IS)	65	4.135	4.111	0.024	57	143633	50.0	50.0	
36 Vinyl acetate	43	5.129	5.123	0.006	98	18244	0.2000	0.2574	
44 Ethyl acetate	43	6.025	6.007	0.018	94	9280	0.2000	0.2457	M
62 Isopropyl acetate	43	7.244	7.244	0.000	98	17669	0.2000	0.2200	M
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2255647	10.0	10.0	
75 n-Propyl acetate	61	8.555	8.549	0.006	96	3318	0.2000	0.1808	M
78 2-Chloroethyl vinyl ether	63	9.091	9.098	-0.007	85	4553	0.2000	0.1697	
110 n-Butyl acetate	43	10.494	10.487	0.007	97	15434	0.2000	0.2115	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1781286	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.987	11.987	0.000	0	3966	0.3999	1.55	
125 Cyclohexanone	55	12.024	12.018	0.006	88	6946	10.0	3.49	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	94	1053709	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

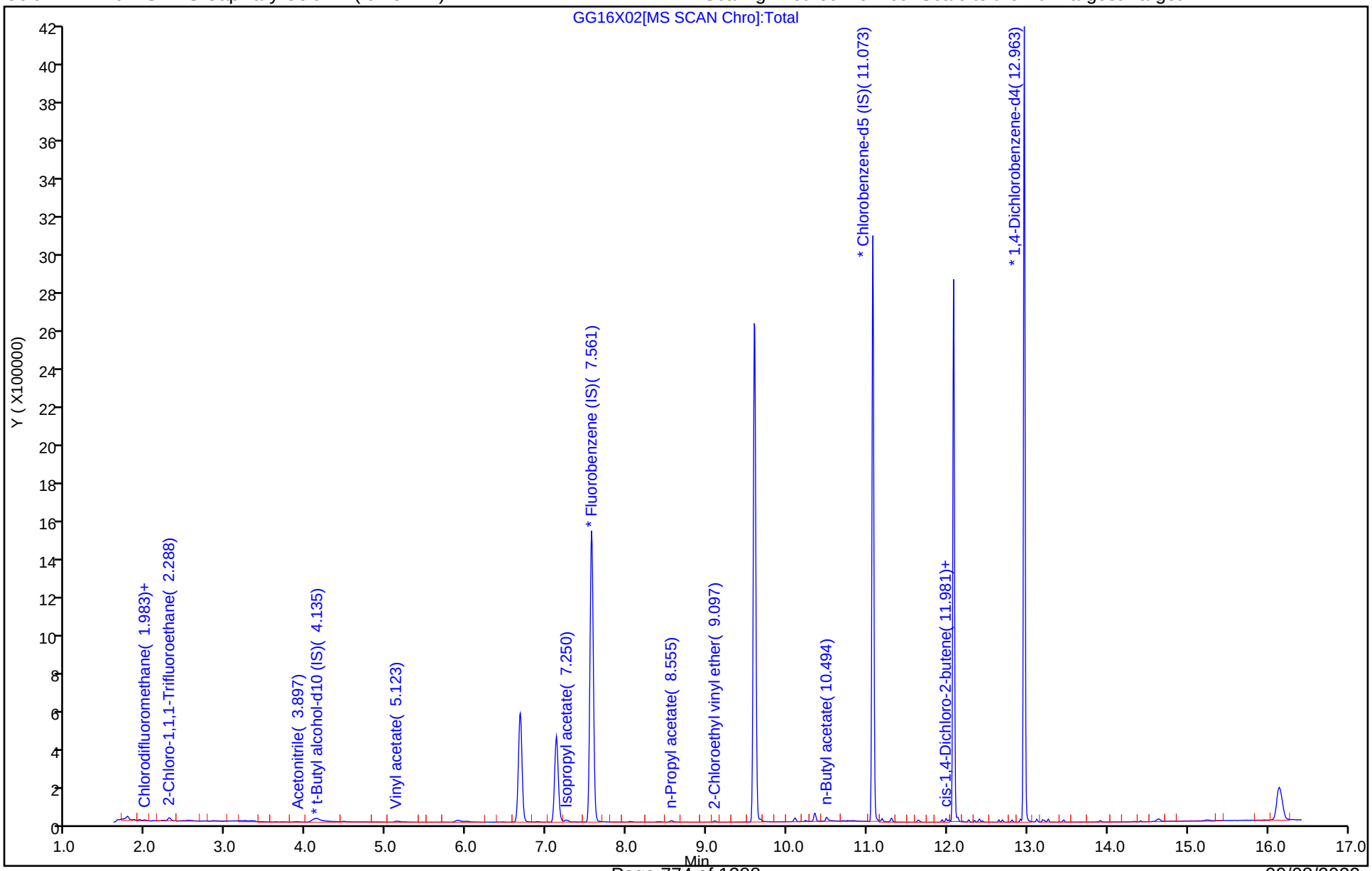
MSV_CCV_CYC_00004	Amount Added:	1.60	Units: uL
MSV_DME_00041	Amount Added:	0.20	Units: uL
MSV_V_SMRV4_00044	Amount Added:	1.00	Units: uL
MSV_29_826ISO_00010	Amount Added:	1.00	Units: uL
MSV_CCV_V5ACE_00013	Amount Added:	0.20	Units: uL

Report Date: 30-Aug-2022 10:48:12 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X02.D				
Injection Date:	16-Aug-2022 13:45:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std1sm			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

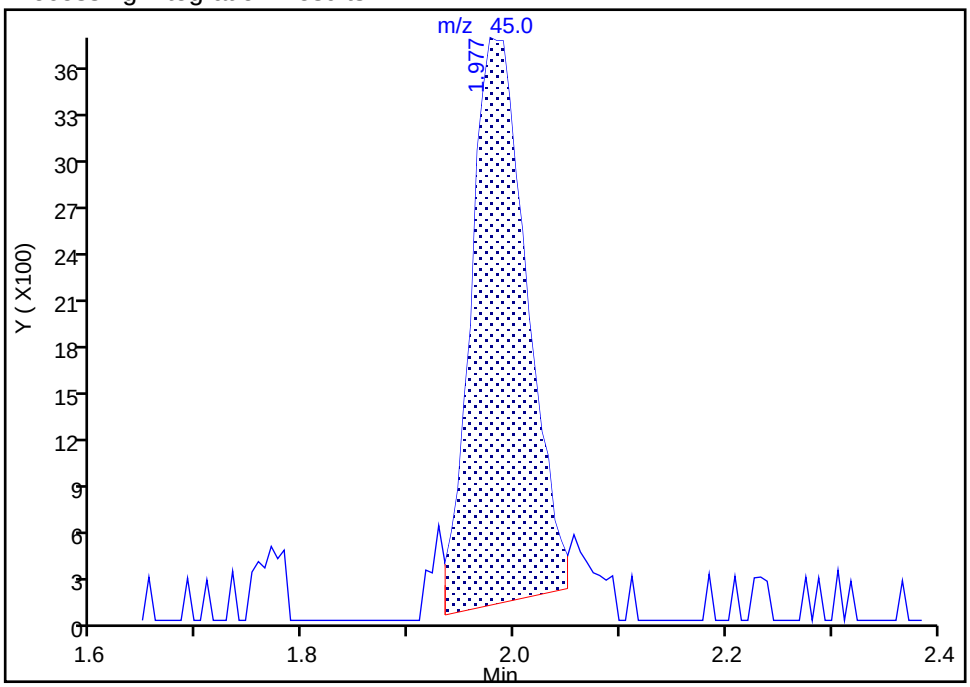
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X02.D				
Injection Date:	16-Aug-2022 13:45:30	Instrument ID:	16334		
Lims ID:	IC std1sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Dimethyl ether, CAS: 115-10-6

Signal: 1

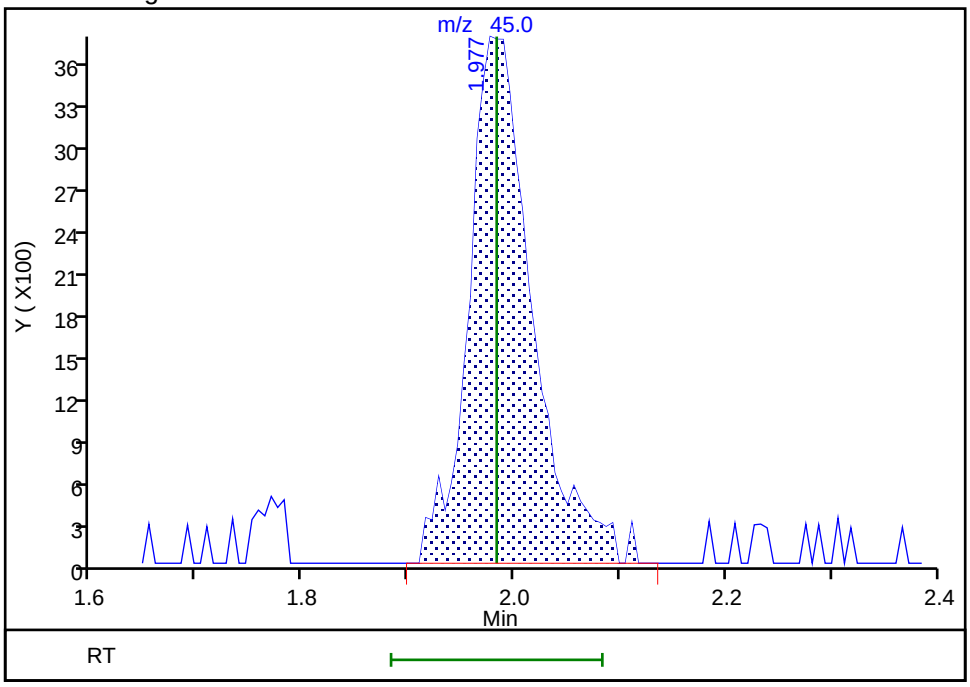
Processing Integration Results

RT: 1.98
Area: 13421
Amount: 0.203207
Amount Units: ug/l



Manual Integration Results

RT: 1.98
Area: 15783
Amount: -0.026053
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:27:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

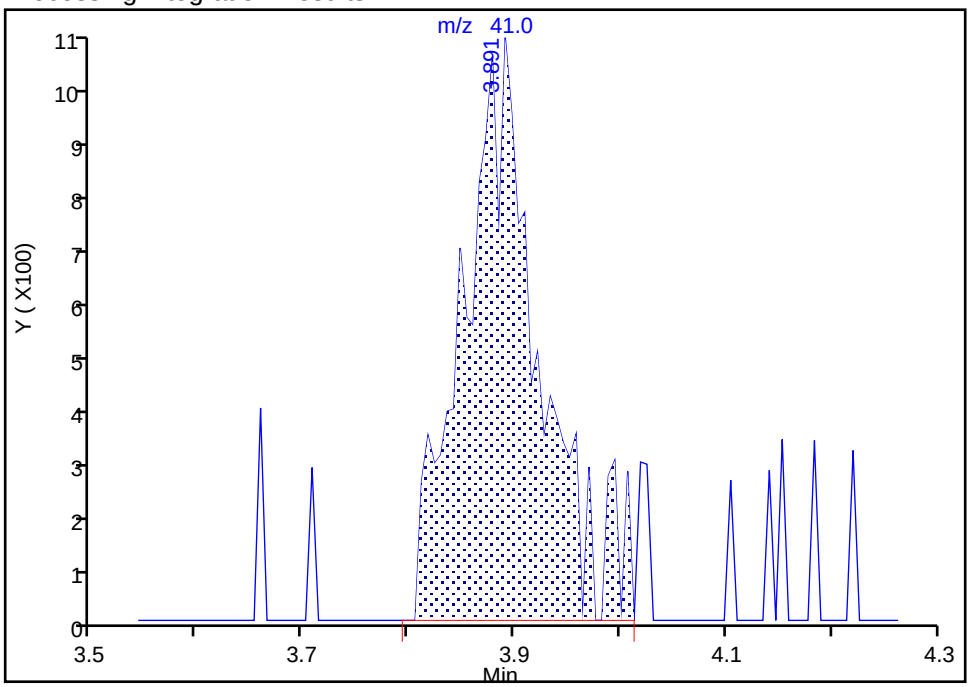
Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X02.D
Injection Date: 16-Aug-2022 13:45:30 Instrument ID: 16334
Lims ID: IC std1sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Acetonitrile, CAS: 75-05-8

Signal: 1

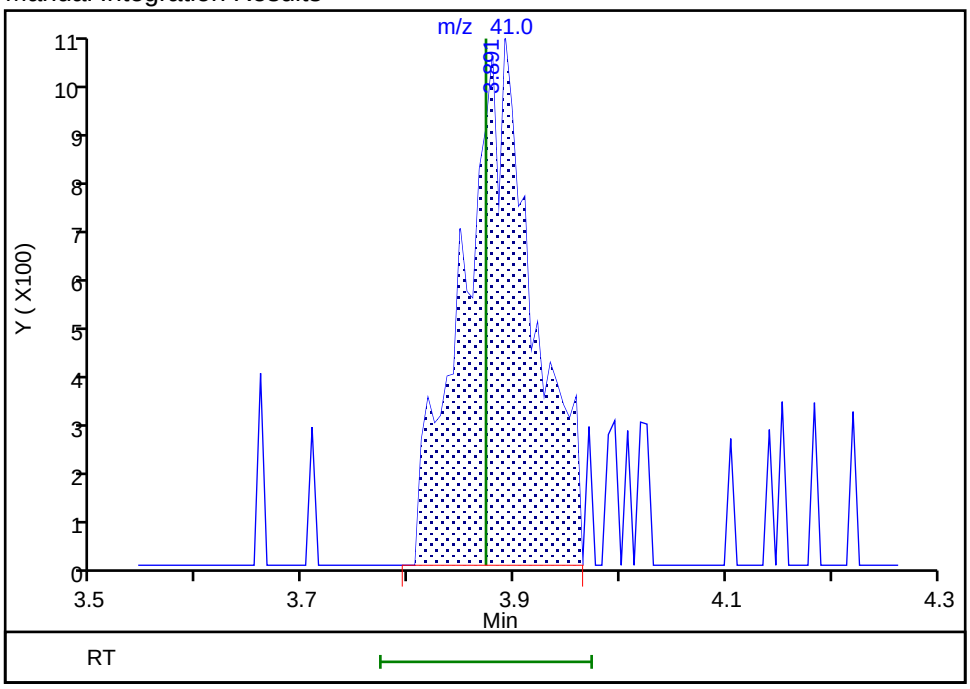
Processing Integration Results

RT: 3.89
Area: 5332
Amount: 1.436666
Amount Units: ug/l



Manual Integration Results

RT: 3.89
Area: 4930
Amount: 1.684448
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:27:25
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

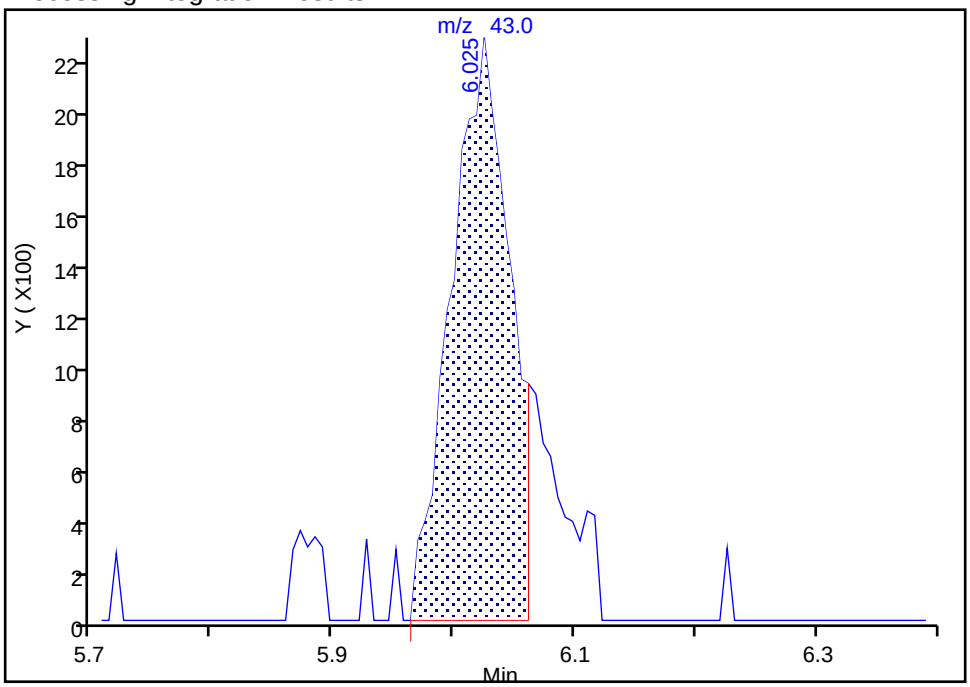
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X02.D				
Injection Date:	16-Aug-2022 13:45:30	Instrument ID:	16334		
Lims ID:	IC std1sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

44 Ethyl acetate, CAS: 141-78-6

Signal: 1

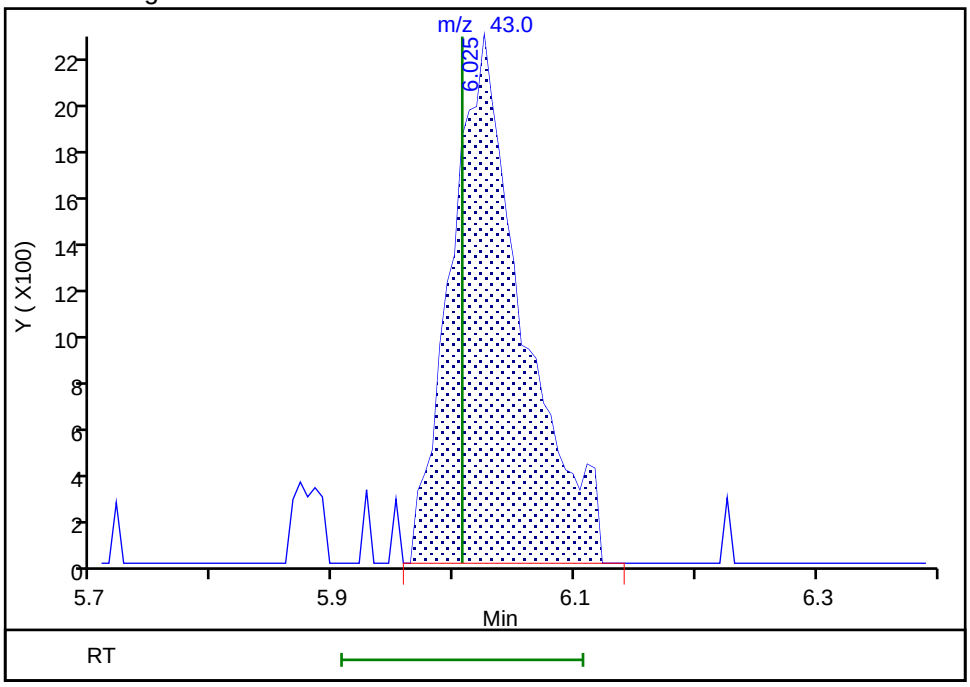
Processing Integration Results

RT: 6.02
Area: 7614
Amount: 0.200000
Amount Units: ug/l



Manual Integration Results

RT: 6.02
Area: 9280
Amount: 0.245681
Amount Units: ug/l



Reviewer: DVW2, 16-Aug-2022 14:20:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X03.D
Lims ID: IC std2sm
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 16-Aug-2022 14:07:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-004
Misc. Info.: IC STD2SM
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub51

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:14 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 16-Aug-2022 14:35:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.861	1.867	-0.006	91	19581	0.5000	0.6920	
3 Chlorodifluoromethane	51	1.916	1.916	0.000	97	46361	0.5000	0.6992	
4 Dimethyl ether	45	1.989	1.983	0.006	98	48787	0.5000	0.5593	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.294	2.294	0.000	33	53338	0.5000	0.7169	
26 Acetonitrile	41	3.861	3.873	-0.012	74	14851	2.50	5.21	
* 30 t-Butyl alcohol-d10 (IS)	65	4.135	4.111	0.024	57	139921	50.0	50.0	
36 Vinyl acetate	43	5.129	5.123	0.006	97	67789	0.5000	0.9550	
44 Ethyl acetate	43	6.013	6.007	0.006	99	31328	0.5000	0.8283	
62 Isopropyl acetate	43	7.244	7.244	0.000	98	65866	0.5000	0.8192	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2258643	10.0	10.0	
75 n-Propyl acetate	61	8.555	8.549	0.006	98	15666	0.5000	0.8524	
78 2-Chloroethyl vinyl ether	63	9.098	9.098	0.000	93	17190	0.5000	0.6398	
110 n-Butyl acetate	43	10.494	10.487	0.007	98	57944	0.5000	0.7969	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1774492	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.987	11.987	0.000	0	16370	1.00	2.15	
125 Cyclohexanone	55	12.018	12.018	0.000	90	36639	25.0	34.6	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1046910	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

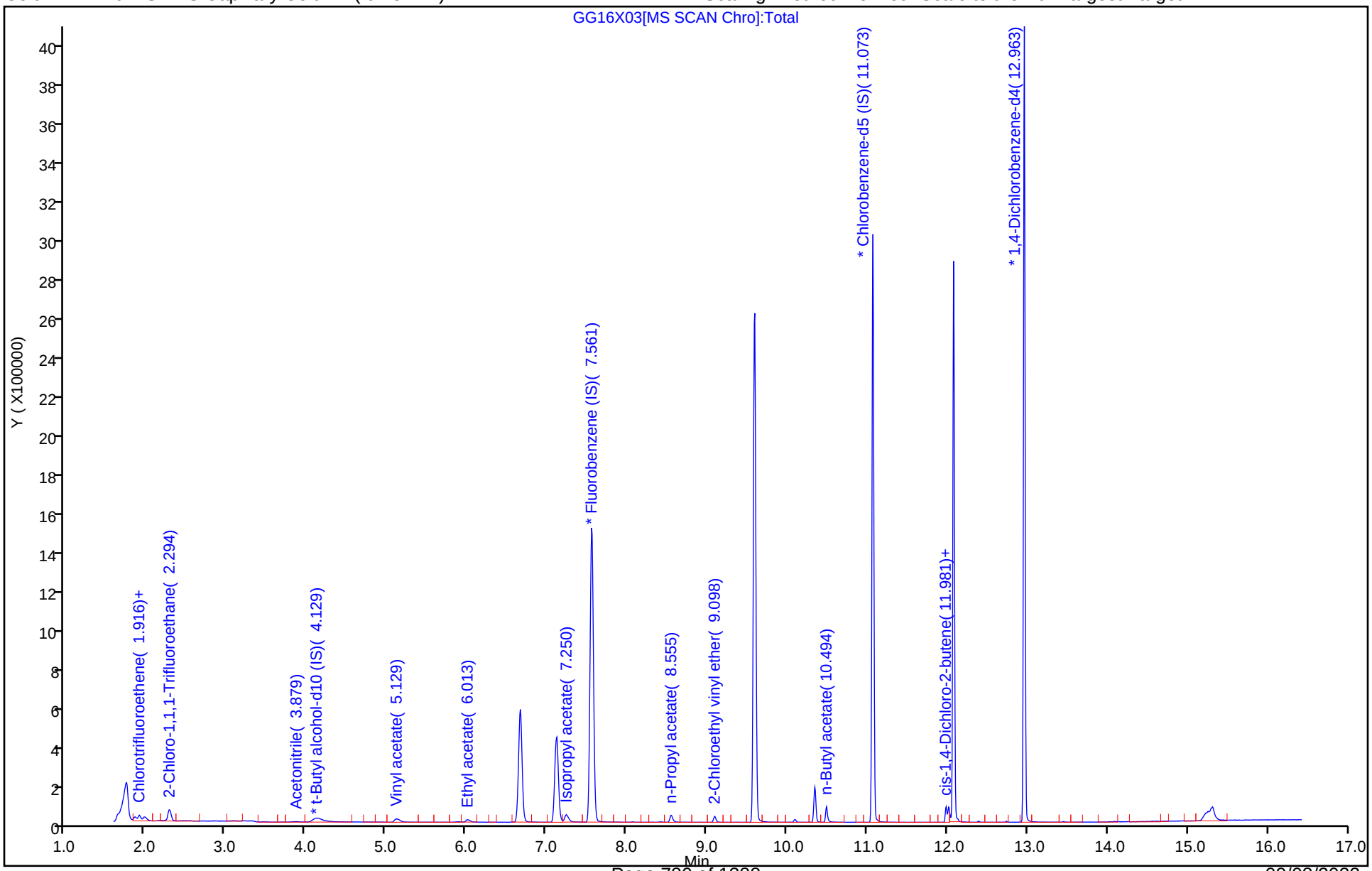
MSV_CCV_CYC_00004	Amount Added:	4.00	Units: uL
MSV_DME_00041	Amount Added:	0.50	Units: uL
MSV_V_SMRV4_00044	Amount Added:	2.50	Units: uL
MSV_29_826ISO_00010	Amount Added:	1.00	Units: uL
MSV_CCV_V5ACE_00013	Amount Added:	0.50	Units: uL

Report Date: 30-Aug-2022 10:48:14 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X03.D				
Injection Date:	16-Aug-2022 14:07:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std2sm			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X04.D
Lims ID: IC std3sm
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Aug-2022 14:29:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-005
Misc. Info.: IC STD3SM
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub51

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:15 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 16-Aug-2022 14:52:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.855	1.867	-0.012	92	26802	1.00	0.9630	
3 Chlorodifluoromethane	51	1.910	1.916	-0.006	97	62611	1.00	0.9599	
4 Dimethyl ether	45	1.977	1.983	-0.006	99	59201	1.00	0.7616	M
8 2-Chloro-1,1,1-Trifluoroethane	118	2.282	2.294	-0.012	33	69583	1.00	0.9509	
26 Acetonitrile	41	3.848	3.873	-0.025	27	13830	5.00	5.04	M
* 30 t-Butyl alcohol-d10 (IS)	65	4.147	4.111	0.036	58	134637	50.0	50.0	
36 Vinyl acetate	43	5.116	5.123	-0.007	97	65156	1.00	0.9332	
44 Ethyl acetate	43	6.006	6.007	-0.001	98	29643	1.00	0.7968	
62 Isopropyl acetate	43	7.244	7.244	0.000	98	61417	1.00	0.7766	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2221679	10.0	10.0	
75 n-Propyl acetate	61	8.555	8.549	0.006	97	13573	1.00	0.7508	
78 2-Chloroethyl vinyl ether	63	9.097	9.098	-0.001	93	24152	1.00	0.9139	
110 n-Butyl acetate	43	10.493	10.487	0.006	97	53802	1.00	0.7528	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1744180	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.987	11.987	0.000	0	21161	2.00	2.42	
125 Cyclohexanone	55	12.024	12.018	0.006	91	41695	50.0	41.6	
* 141 1,4-Dichlorobenzene-d4	152	12.962	12.963	-0.001	94	1030930	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

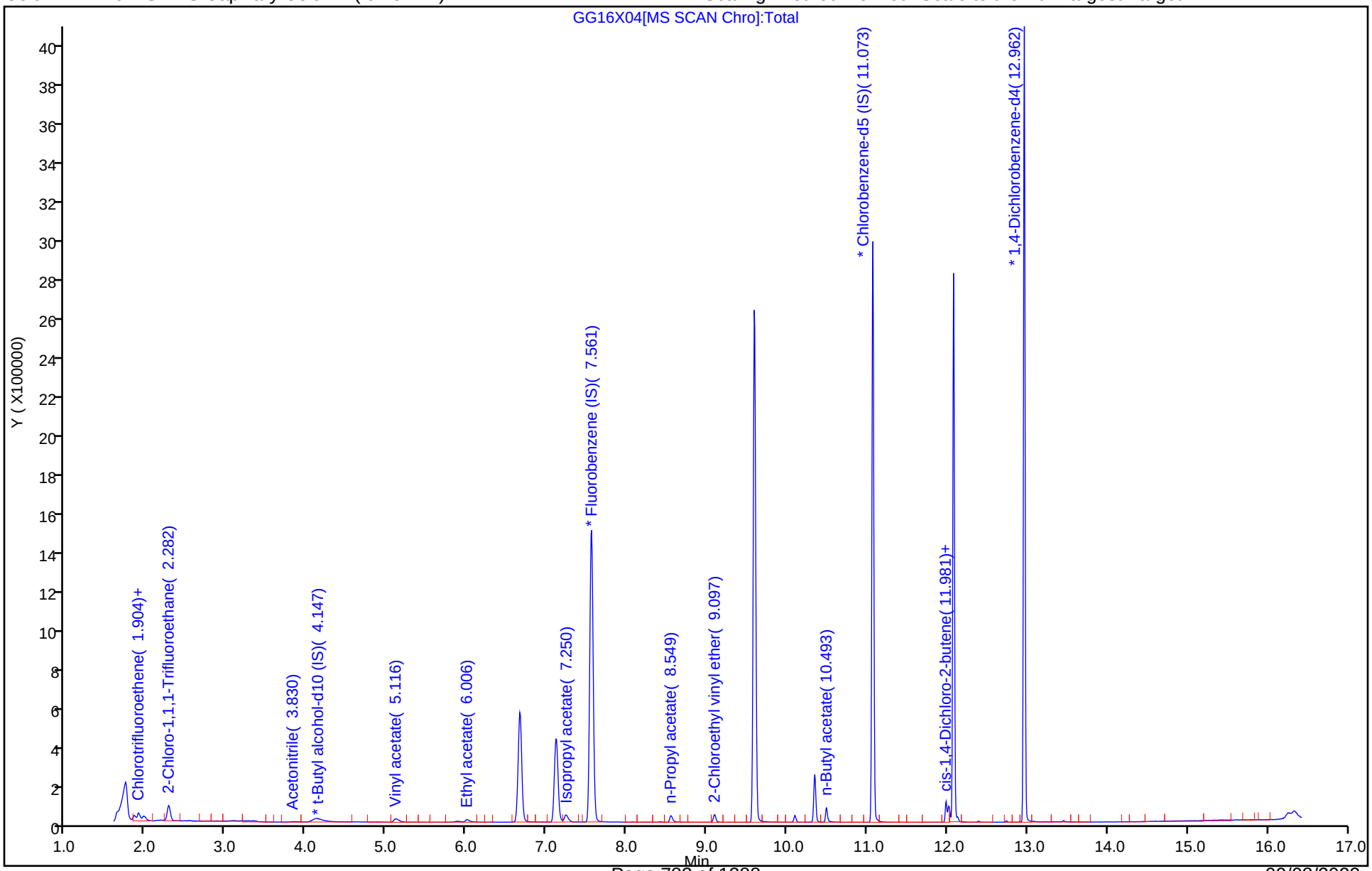
MSV_CCV_CYC_00004	Amount Added:	8.00	Units: uL
MSV_DME_00041	Amount Added:	1.00	Units: uL
MSV_V_SMRV4_00044	Amount Added:	5.00	Units: uL
MSV_29_826ISO_00010	Amount Added:	1.00	Units: uL
MSV_CCV_V5ACE_00013	Amount Added:	1.00	Units: uL

Report Date: 30-Aug-2022 10:48:16 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X04.D				
Injection Date:	16-Aug-2022 14:29:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std3sm			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

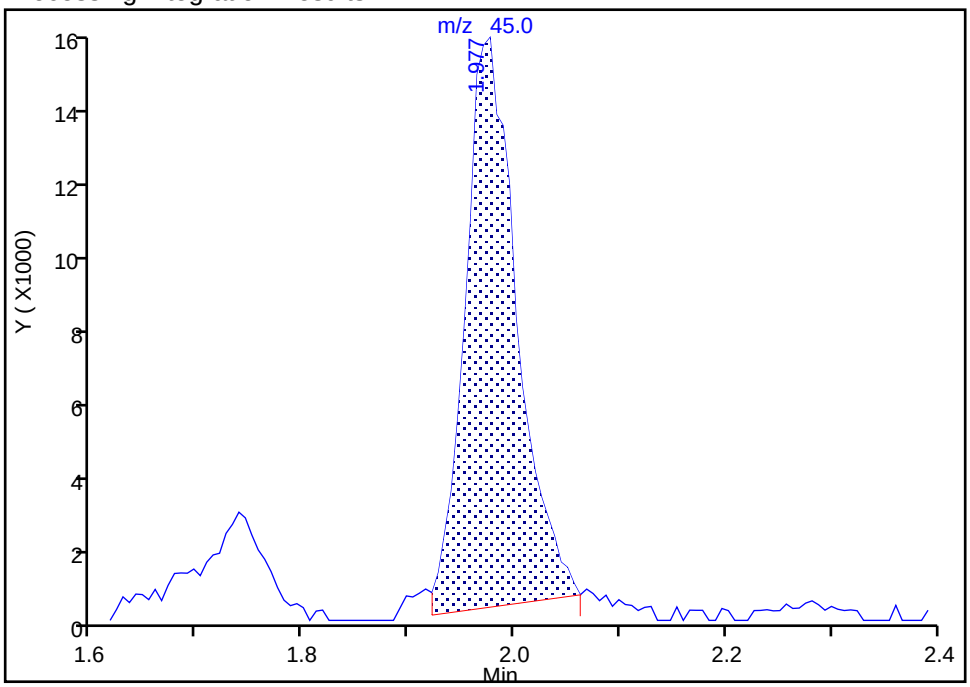
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X04.D				
Injection Date:	16-Aug-2022 14:29:30	Instrument ID:	16334		
Lims ID:	IC std3sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Dimethyl ether, CAS: 115-10-6

Signal: 1

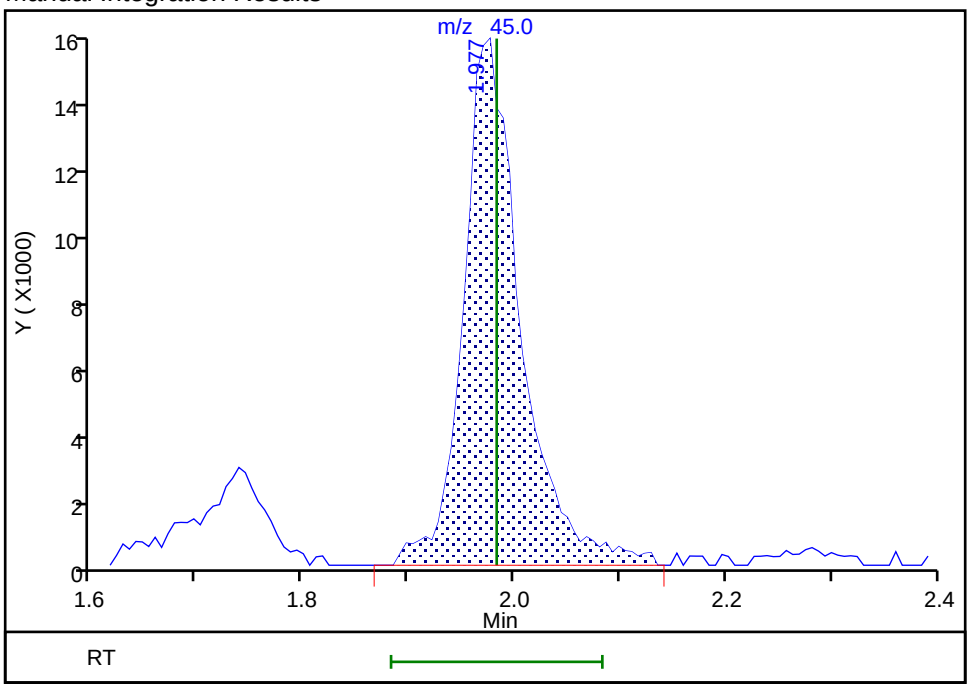
Processing Integration Results

RT: 1.98
Area: 52375
Amount: 0.732700
Amount Units: ug/l



Manual Integration Results

RT: 1.98
Area: 59201
Amount: 0.761630
Amount Units: ug/l



Reviewer: DVW2, 16-Aug-2022 14:52:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

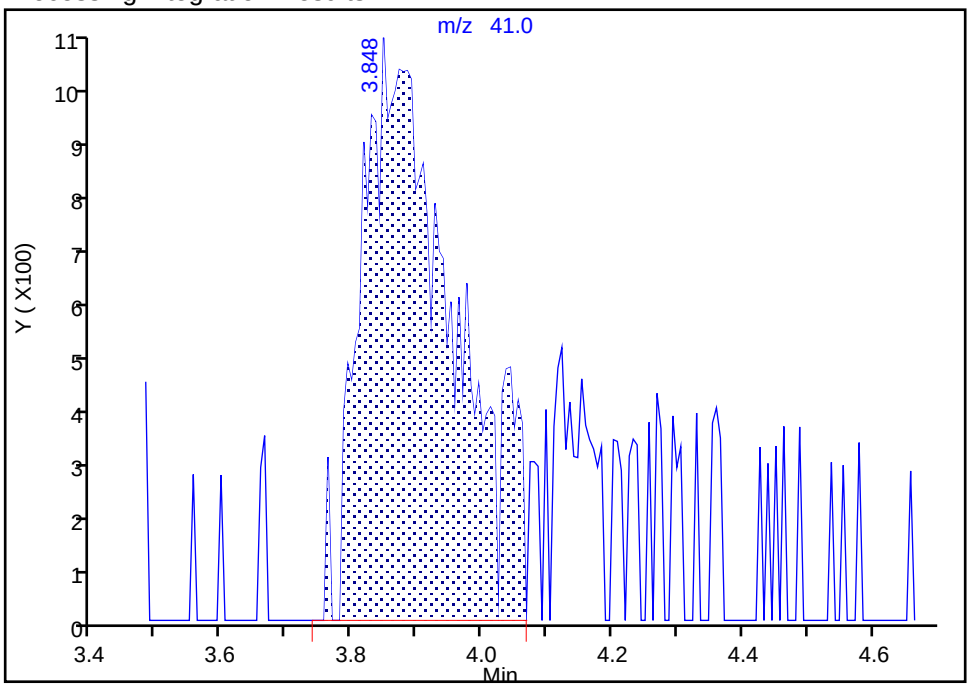
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X04.D				
Injection Date:	16-Aug-2022 14:29:30	Instrument ID:	16334		
Lims ID:	IC std3sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Acetonitrile, CAS: 75-05-8

Signal: 1

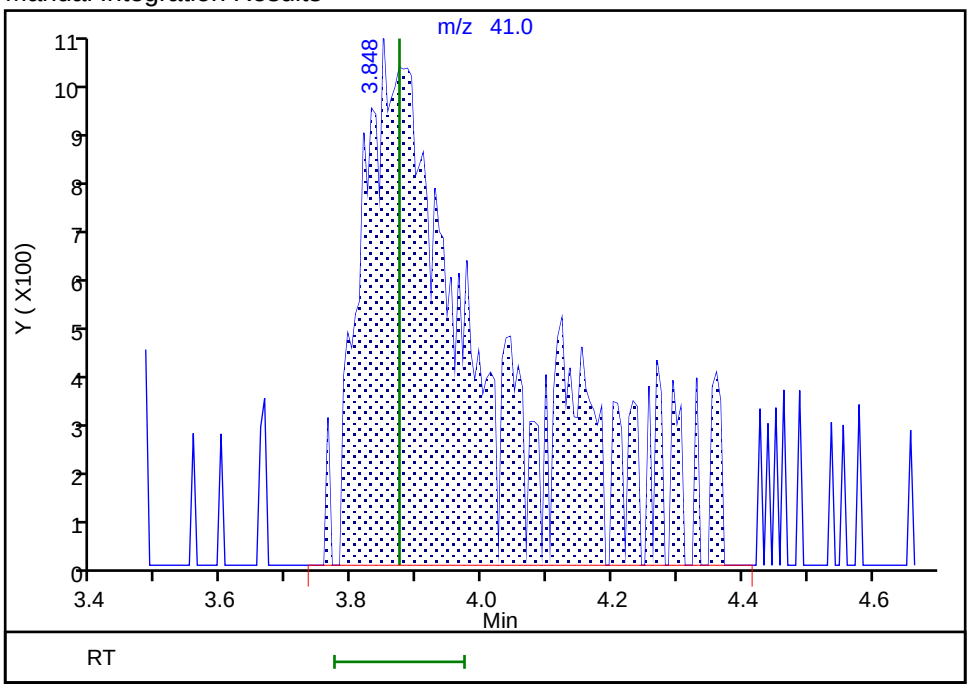
Processing Integration Results

RT: 3.85
Area: 9906
Amount: 2.340864
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 13830
Amount: 5.041070
Amount Units: ug/l



Reviewer: DVW2, 16-Aug-2022 14:52:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X05.D
Lims ID: IC std4sm
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 16-Aug-2022 14:51:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-006
Misc. Info.: IC STD4SM
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub51

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:17 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 08:17:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.867	1.867	0.000	92	51699	2.00	1.82	
3 Chlorodifluoromethane	51	1.916	1.916	0.000	97	120688	2.00	1.81	
4 Dimethyl ether	45	1.983	1.983	0.000	100	121366	2.00	1.84	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.294	2.294	0.000	33	136705	2.00	1.83	
26 Acetonitrile	41	3.879	3.879	0.000	96	26945	10.0	10.1	
* 30 t-Butyl alcohol-d10 (IS)	65	4.147	4.147	0.000	57	130790	50.0	50.0	
36 Vinyl acetate	43	5.123	5.123	0.000	97	134586	2.00	1.89	
44 Ethyl acetate	43	6.007	6.007	0.000	99	65212	2.00	1.72	M
62 Isopropyl acetate	43	7.250	7.250	0.000	98	132886	2.00	1.64	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2269389	10.0	10.0	
75 n-Propyl acetate	61	8.555	8.555	0.000	97	30130	2.00	1.63	
78 2-Chloroethyl vinyl ether	63	9.097	9.097	0.000	92	49124	2.00	1.82	
110 n-Butyl acetate	43	10.494	10.494	0.000	97	118431	2.00	1.62	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1782662	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.987	11.987	0.000	0	47518	4.00	3.80	
125 Cyclohexanone	55	12.018	12.018	0.000	90	78628	100.0	84.1	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	94	1052334	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

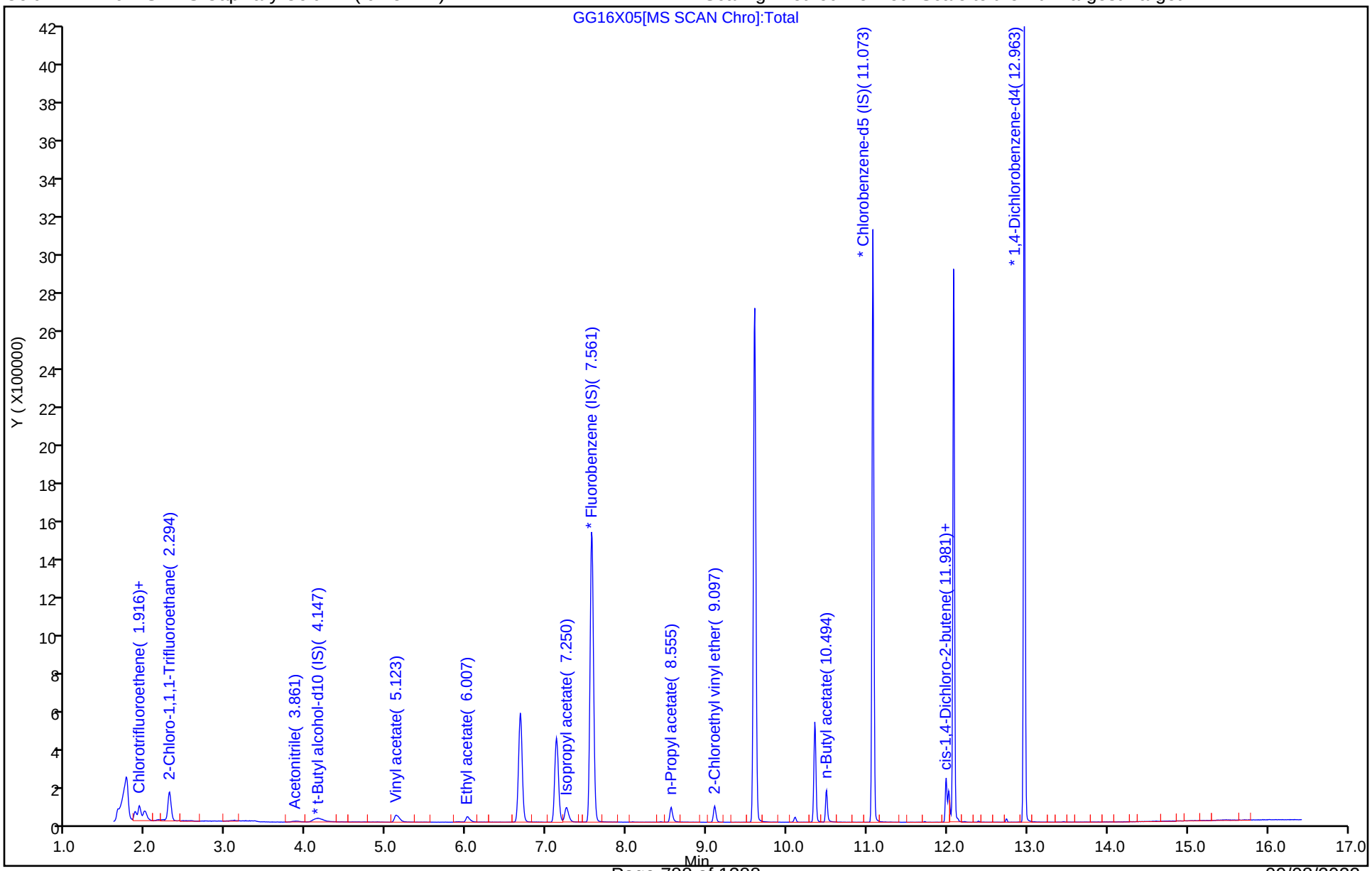
MSV_CCV_CYC_00004	Amount Added:	8.00	Units: uL
MSV_DME_00041	Amount Added:	1.00	Units: uL
MSV_V_SMRV4_00044	Amount Added:	5.00	Units: uL
MSV_29_826ISO_00010	Amount Added:	1.00	Units: uL
MSV_CCV_V5ACE_00013	Amount Added:	1.00	Units: uL

Report Date: 30-Aug-2022 10:48:18 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X05.D				
Injection Date:	16-Aug-2022 14:51:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std4sm			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

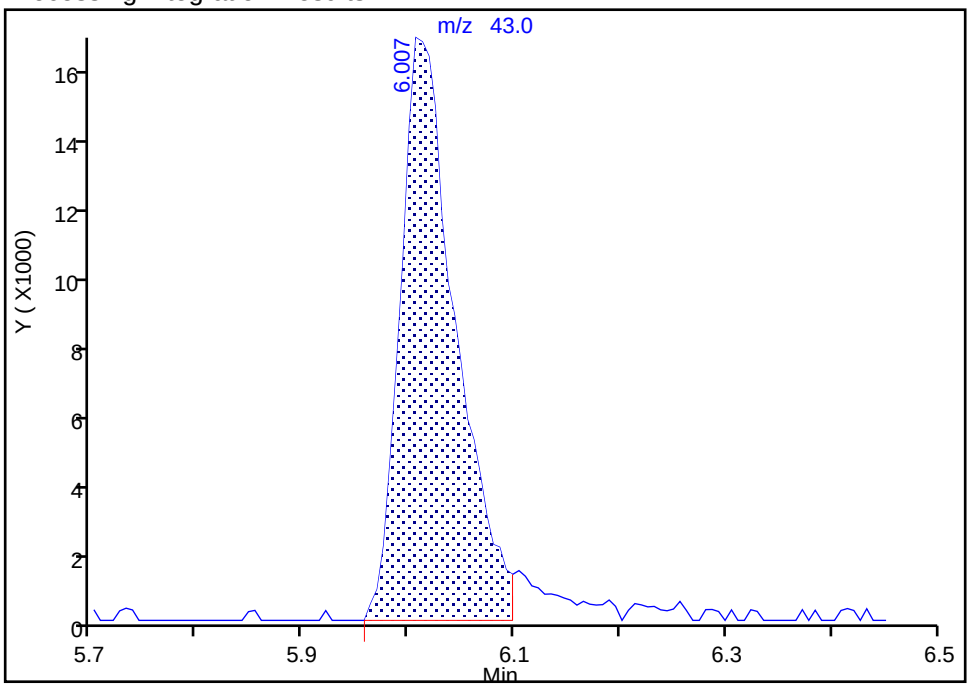
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X05.D				
Injection Date:	16-Aug-2022 14:51:30	Instrument ID:	16334		
Lims ID:	IC std4sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

44 Ethyl acetate, CAS: 141-78-6

Signal: 1

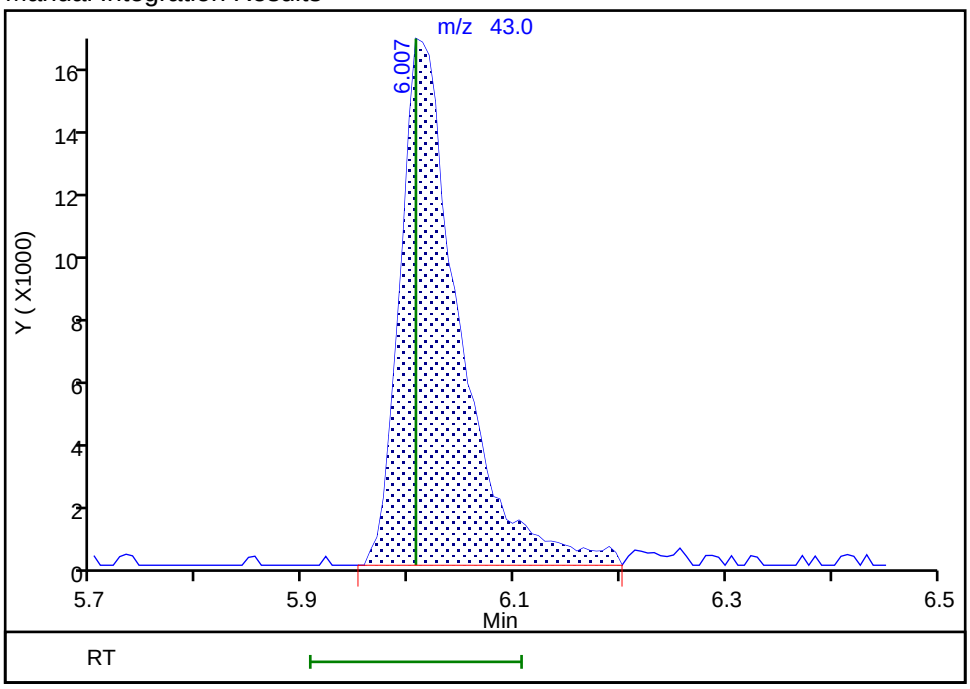
Processing Integration Results

RT: 6.01
Area: 61040
Amount: 1.567352
Amount Units: ug/l



Manual Integration Results

RT: 6.01
Area: 65212
Amount: 1.715985
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:28:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X06.D
Lims ID: IC std5sm
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 16-Aug-2022 15:13:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-007
Misc. Info.: IC STD5SM
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub51

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:19 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:29:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.861	1.867	-0.006	90	129786	5.00	4.65	
3 Chlorodifluoromethane	51	1.916	1.916	0.000	97	294272	5.00	4.50	
4 Dimethyl ether	45	1.983	1.983	0.000	99	295987	5.00	5.02	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.288	2.294	-0.006	33	340153	5.00	4.64	
26 Acetonitrile	41	3.873	3.879	-0.006	96	73543	25.0	27.0	
* 30 t-Butyl alcohol-d10 (IS)	65	4.135	4.147	-0.012	57	133576	50.0	50.0	
36 Vinyl acetate	43	5.117	5.123	-0.006	97	383773	5.00	5.49	
44 Ethyl acetate	43	6.013	6.007	0.006	99	177642	5.00	4.77	
62 Isopropyl acetate	43	7.244	7.250	-0.006	98	371960	5.00	4.69	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2226252	10.0	10.0	
75 n-Propyl acetate	61	8.555	8.555	0.000	97	89939	5.00	4.96	
78 2-Chloroethyl vinyl ether	63	9.098	9.097	0.001	92	129899	5.00	4.91	
110 n-Butyl acetate	43	10.487	10.494	-0.007	98	350392	5.00	4.82	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1772629	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.987	11.987	0.000	0	142762	10.0	8.54	
125 Cyclohexanone	55	12.018	12.018	0.000	91	223980	250.0	241.0	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	94	1037534	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

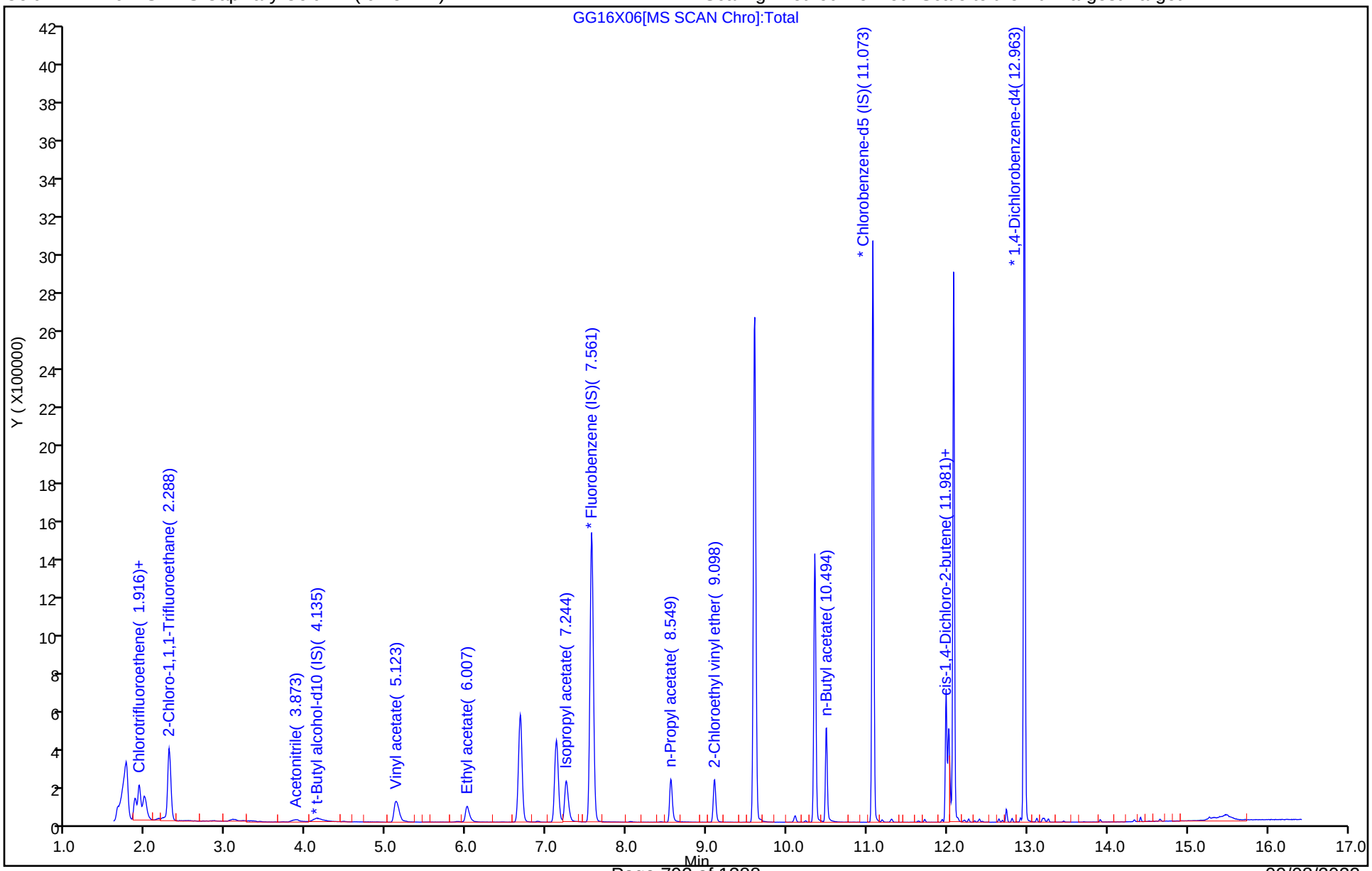
MSV_CCV_CYC_00004	Amount Added:	8.00	Units: uL
MSV_DME_00041	Amount Added:	1.00	Units: uL
MSV_V_SMRV4_00044	Amount Added:	5.00	Units: uL
MSV_29_826ISO_00010	Amount Added:	1.00	Units: uL
MSV_CCV_V5ACE_00013	Amount Added:	1.00	Units: uL

Report Date: 30-Aug-2022 10:48:20 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X06.D				
Injection Date:	16-Aug-2022 15:13:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std5sm			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X07.D
Lims ID: IC std6sm
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 16-Aug-2022 15:35:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-008
Misc. Info.: IC STD6SM
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub51

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:29:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.867	1.867	0.000	90	256896	10.0	9.12	
3 Chlorodifluoromethane	51	1.916	1.916	0.000	97	599209	10.0	9.08	
4 Dimethyl ether	45	1.983	1.983	0.000	99	606235	10.0	10.5	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.294	2.294	0.000	33	685389	10.0	9.26	
26 Acetonitrile	41	3.873	3.873	0.000	98	128309	50.0	51.3	M
* 30 t-Butyl alcohol-d10 (IS)	65	4.141	4.141	0.000	57	122676	50.0	50.0	M
36 Vinyl acetate	43	5.123	5.123	0.000	97	769470	10.0	10.9	
44 Ethyl acetate	43	6.007	6.007	0.000	99	347687	10.0	9.24	
62 Isopropyl acetate	43	7.244	7.244	0.000	98	728475	10.0	9.10	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2248075	10.0	10.0	
75 n-Propyl acetate	61	8.549	8.549	0.000	98	176897	10.0	9.67	
78 2-Chloroethyl vinyl ether	63	9.098	9.098	0.000	93	267190	10.0	10.0	
110 n-Butyl acetate	43	10.487	10.487	0.000	98	696892	10.0	9.63	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1765873	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.987	11.987	0.000	0	317201	20.0	18.7	
125 Cyclohexanone	55	12.018	12.018	0.000	90	394658	500.0	465.7	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	94	1036116	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_CYC_00004	Amount Added:	8.00	Units: uL
MSV_DME_00041	Amount Added:	1.00	Units: uL
MSV_V_SMRV4_00044	Amount Added:	5.00	Units: uL
MSV_29_826ISO_00010	Amount Added:	1.00	Units: uL
MSV_CCV_V5ACE_00013	Amount Added:	1.00	Units: uL

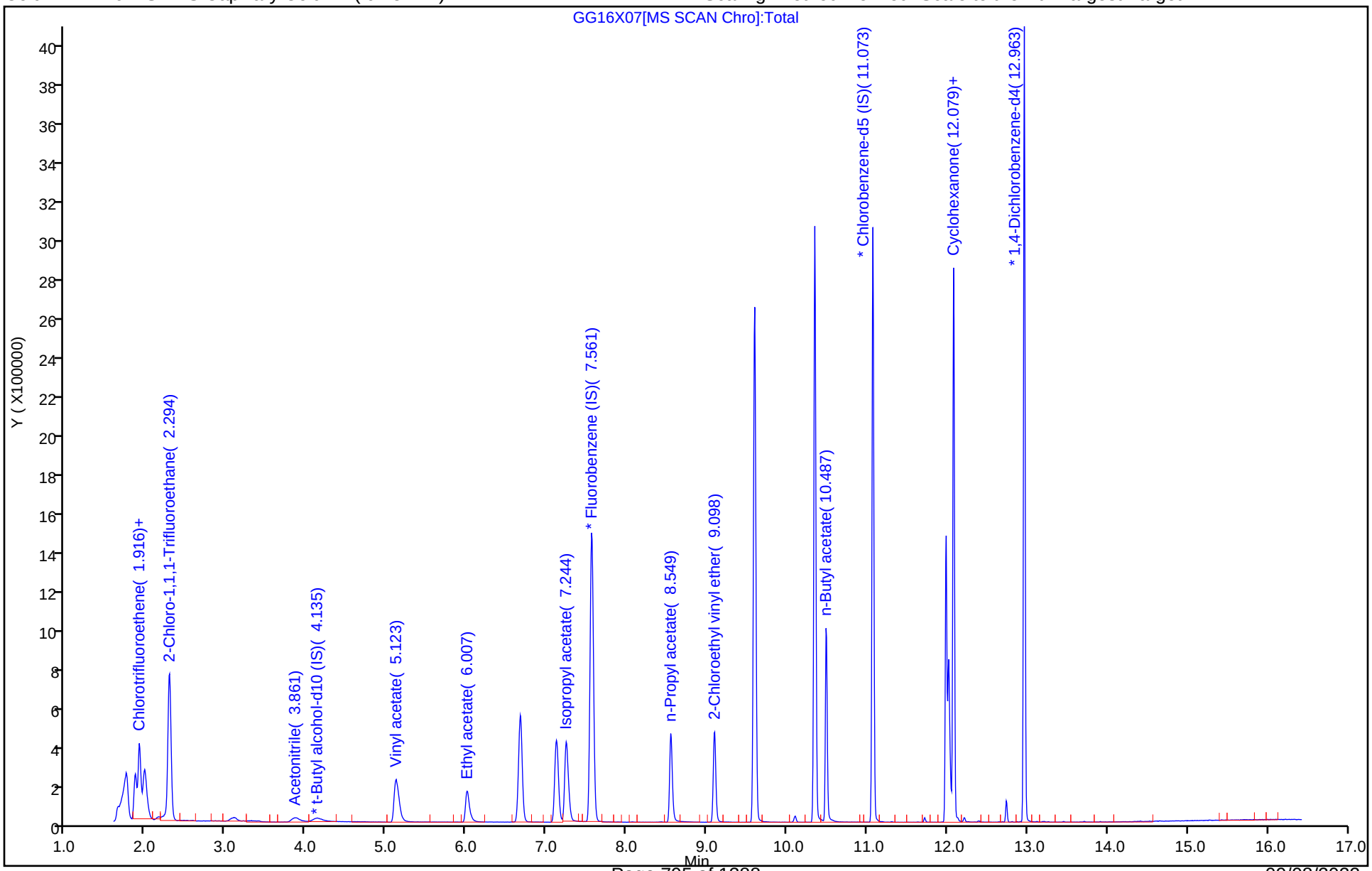
Report Date: 30-Aug-2022 10:48:21 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X07.D

Injection Date:	16-Aug-2022 15:35:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std6sm			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

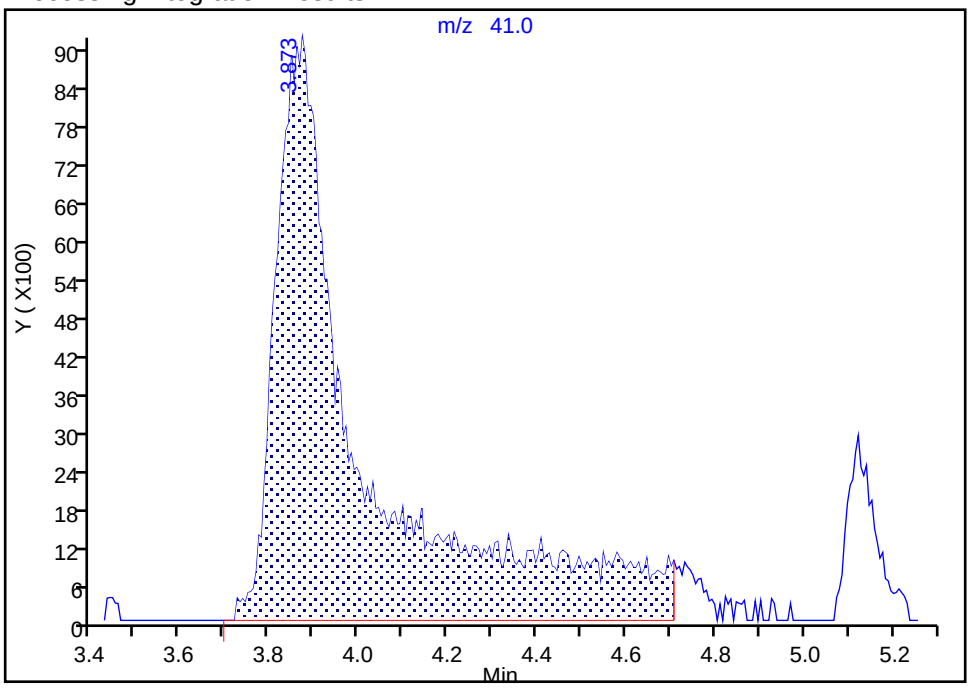
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X07.D				
Injection Date:	16-Aug-2022 15:35:30	Instrument ID:	16334		
Lims ID:	IC std6sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Acetonitrile, CAS: 75-05-8

Signal: 1

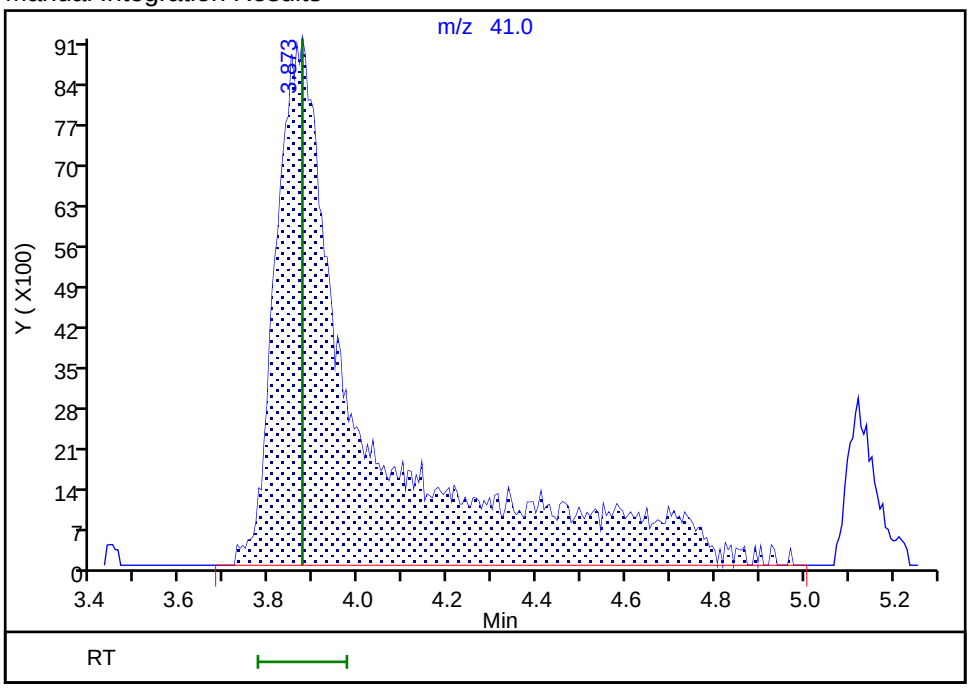
Processing Integration Results

RT: 3.87
Area: 123466
Amount: 39.645999
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 128309
Amount: 51.328964
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:29:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

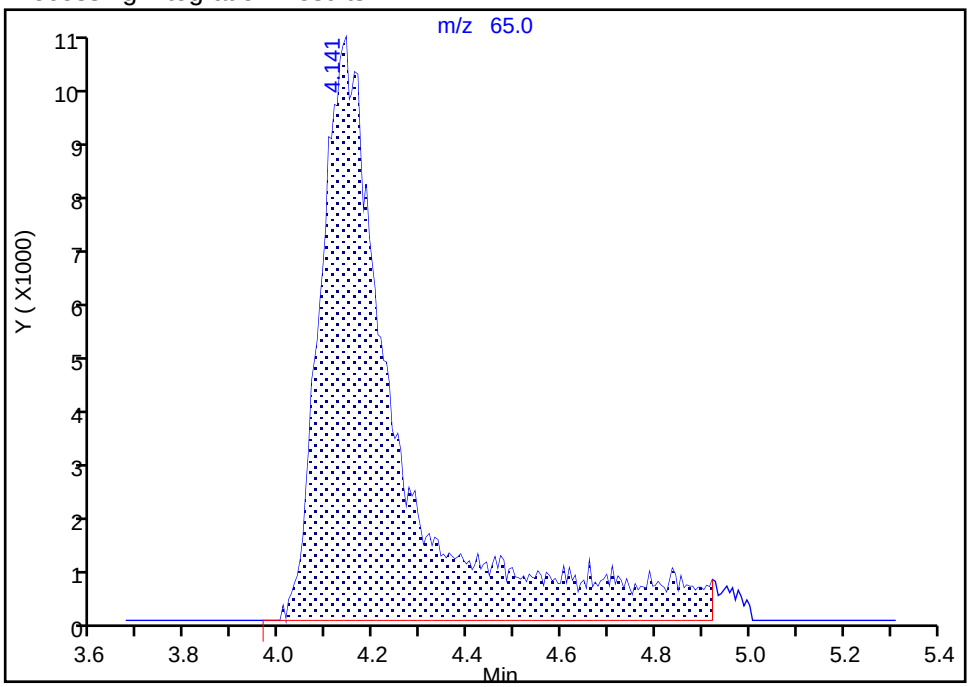
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X07.D				
Injection Date:	16-Aug-2022 15:35:30	Instrument ID:	16334		
Lims ID:	IC std6sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

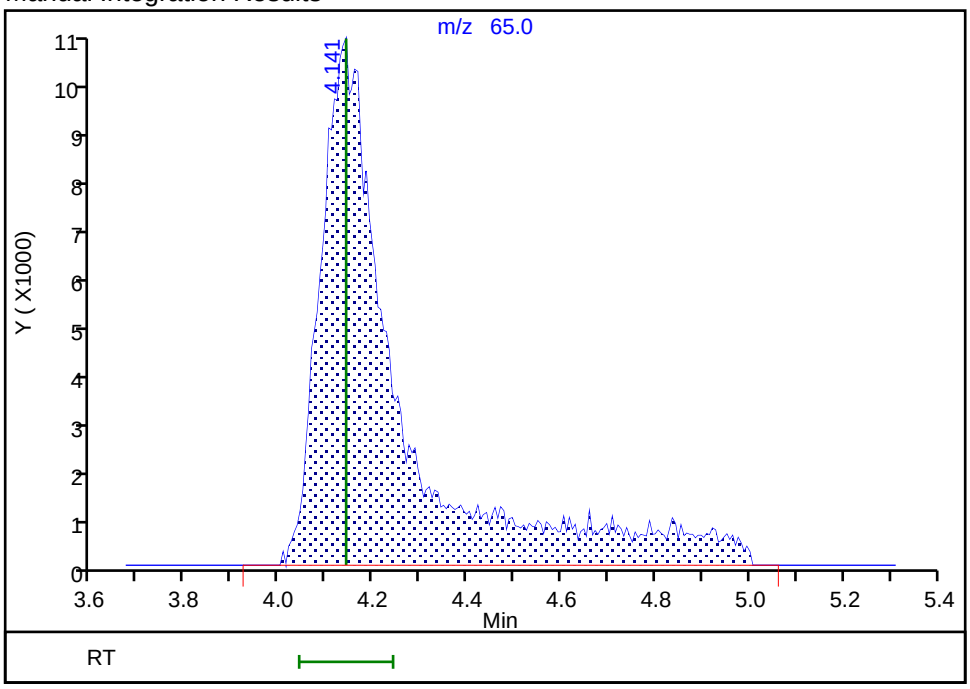
Processing Integration Results

RT: 4.14
Area: 120424
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.14
Area: 122676
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:29:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X08.D
Lims ID: IC std7sm
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 16-Aug-2022 15:58:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-009
Misc. Info.: IC STD7SM
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub51

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:23 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 08:17:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.855	1.867	-0.012	91	651568	25.0	24.4	
3 Chlorodifluoromethane	51	1.910	1.916	-0.006	97	1480233	25.0	23.7	
4 Dimethyl ether	45	1.971	1.983	-0.012	99	1335629	25.0	24.8	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.282	2.294	-0.012	47	1701547	25.0	24.2	
26 Acetonitrile	41	3.843	3.873	-0.030	98	257332	125.0	109.2	M
* 30 t-Butyl alcohol-d10 (IS)	65	4.135	4.141	-0.006	58	115676	50.0	50.0	
36 Vinyl acetate	43	5.111	5.123	-0.012	97	1569029	25.0	23.4	
44 Ethyl acetate	43	6.001	6.007	-0.006	99	724549	25.0	20.3	
62 Isopropyl acetate	43	7.238	7.244	-0.006	98	1542987	25.0	20.3	
* 64 Fluorobenzene (IS)	96	7.555	7.561	-0.006	99	2131202	10.0	10.0	
75 n-Propyl acetate	61	8.549	8.549	0.000	98	374996	25.0	21.6	
78 2-Chloroethyl vinyl ether	63	9.092	9.098	-0.006	92	676748	25.0	26.7	
110 n-Butyl acetate	43	10.488	10.487	0.001	98	1475691	25.0	21.4	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1680355	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.987	11.987	0.000	0	881331	50.0	52.5	
125 Cyclohexanone	55	12.018	12.018	0.000	91	1040163	1250.1	1308.1	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	992220	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_CYC_00004	Amount Added:	20.00	Units: uL
MSV_DME_00041	Amount Added:	2.50	Units: uL
MSV_V_SMRV4_00044	Amount Added:	12.50	Units: uL
MSV_29_826ISO_00010	Amount Added:	1.00	Units: uL
MSV_CCV_V5ACE_00013	Amount Added:	2.50	Units: uL

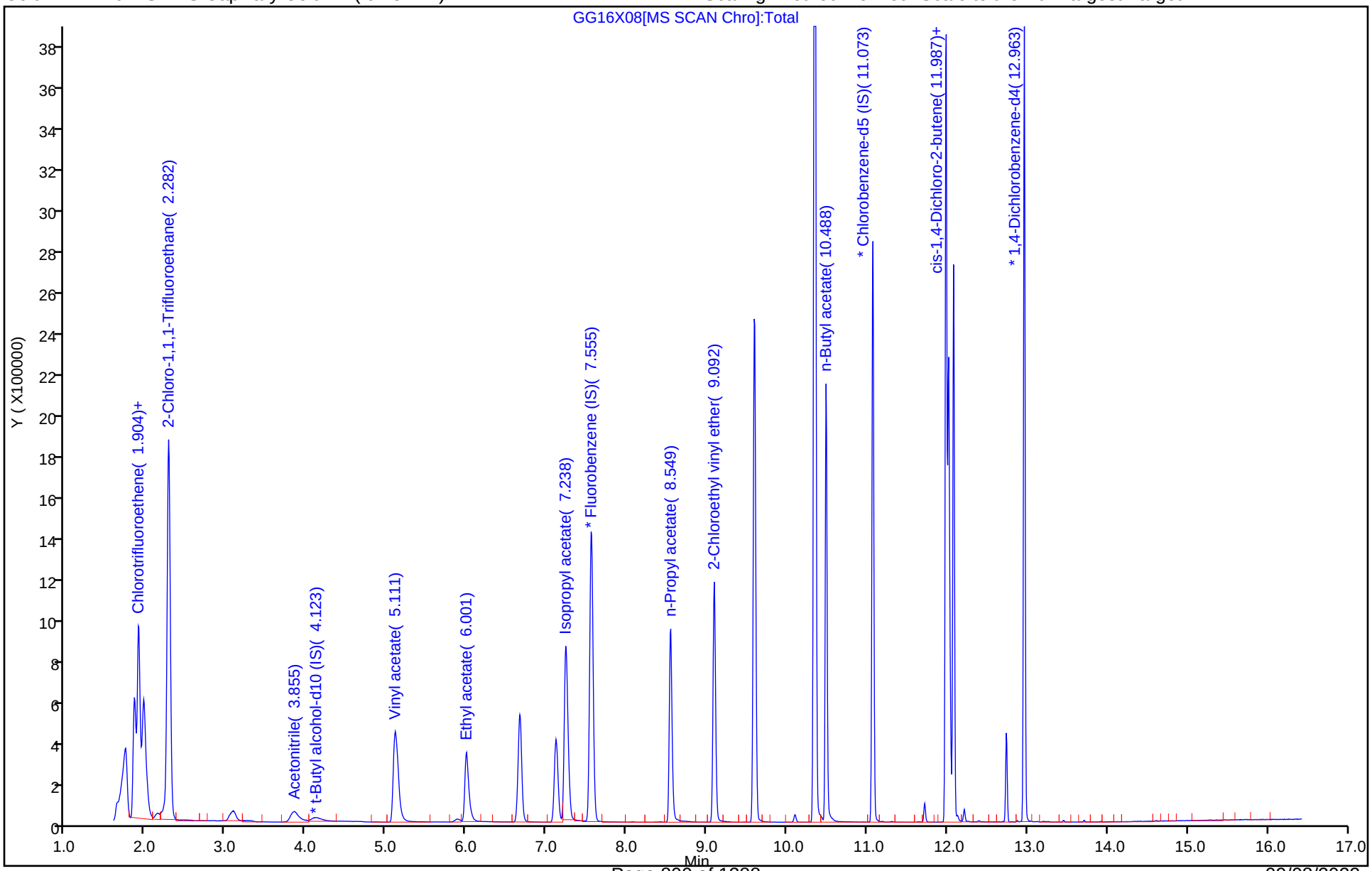
Report Date: 30-Aug-2022 10:48:23 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X08.D

Injection Date:	16-Aug-2022 15:58:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std7sm			Worklist Smp#:	9
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

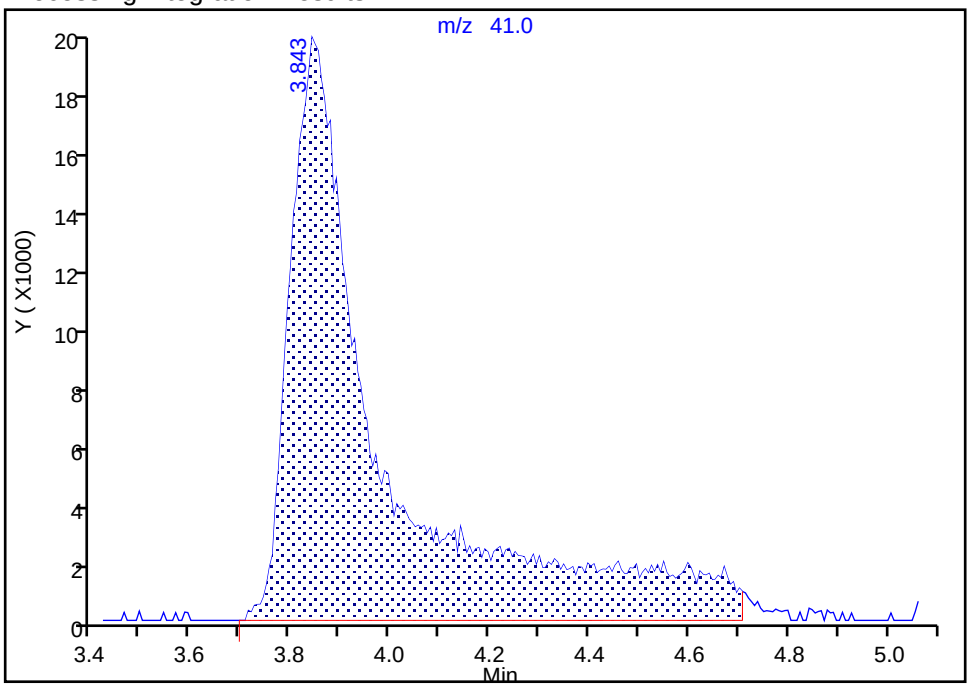
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X08.D				
Injection Date:	16-Aug-2022 15:58:30	Instrument ID:	16334		
Lims ID:	IC std7sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Acetonitrile, CAS: 75-05-8

Signal: 1

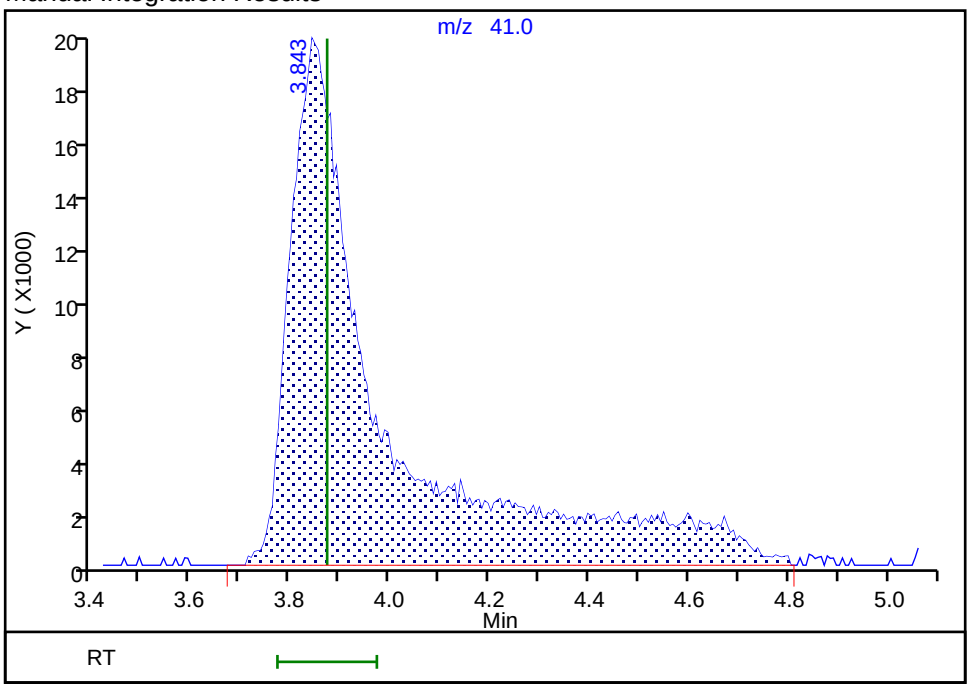
Processing Integration Results

RT: 3.84
Area: 254822
Amount: 86.393259
Amount Units: ug/l



Manual Integration Results

RT: 3.84
Area: 257332
Amount: 109.1731
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:30:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

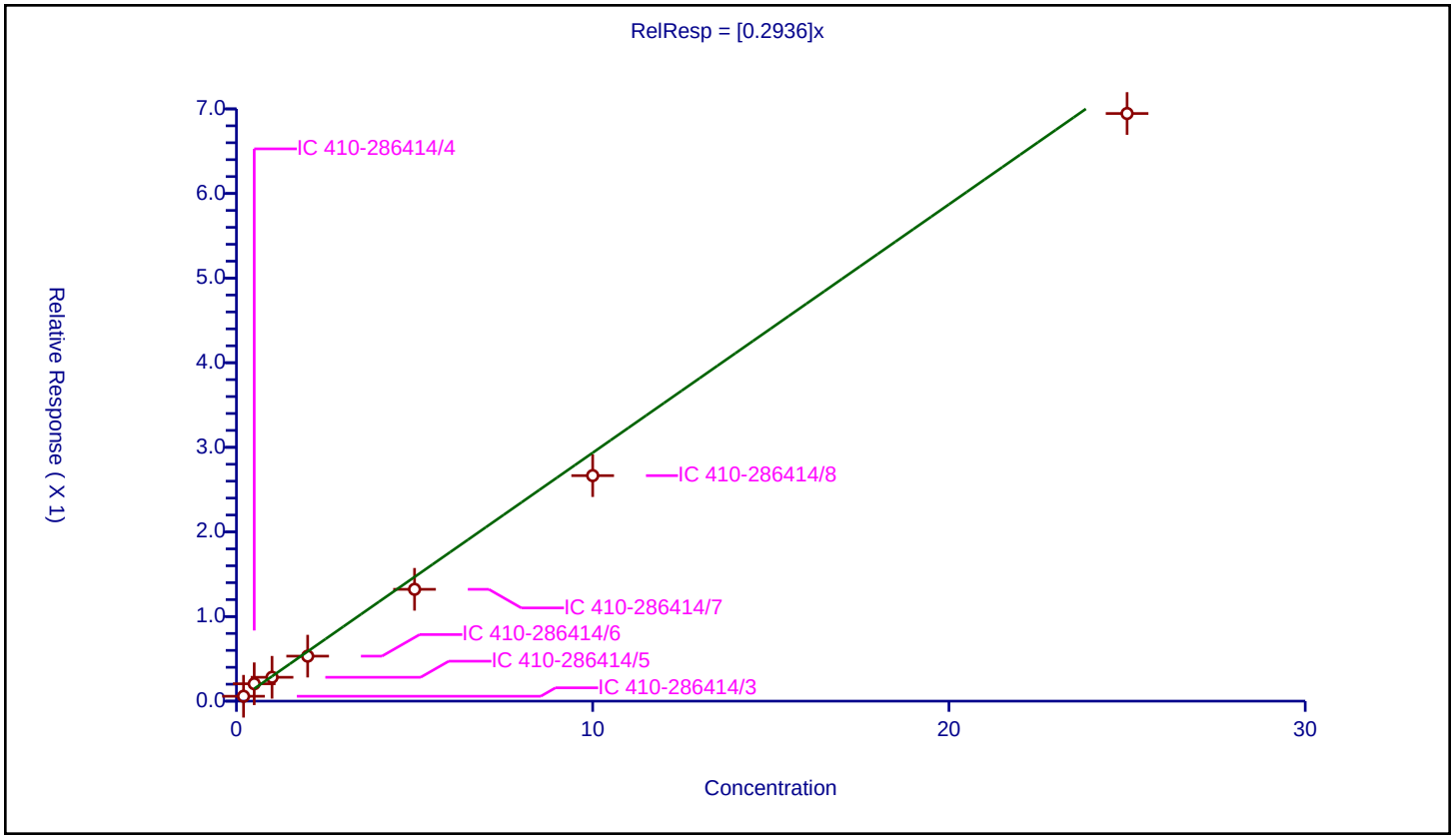
Curve Coefficients

Intercept:	0
Slope:	0.2936

Error Coefficients

Standard Error:	666000
Relative Standard Error:	17.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.955

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/3	0.2	0.057615	10.0	2255647.0	0.288077	Y
2	IC 410-286414/4	0.5	0.20526	10.0	2258643.0	0.410521	Y
3	IC 410-286414/5	1.0	0.281818	10.0	2221679.0	0.281818	Y
4	IC 410-286414/6	2.0	0.531808	10.0	2269389.0	0.265904	Y
5	IC 410-286414/7	5.0	1.321827	10.0	2226252.0	0.264365	Y
6	IC 410-286414/8	10.0	2.665432	10.0	2248075.0	0.266543	Y
7	IC 410-286414/9	25.0	6.945531	10.0	2131202.0	0.277821	Y



Calibration / Dimethyl ether

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

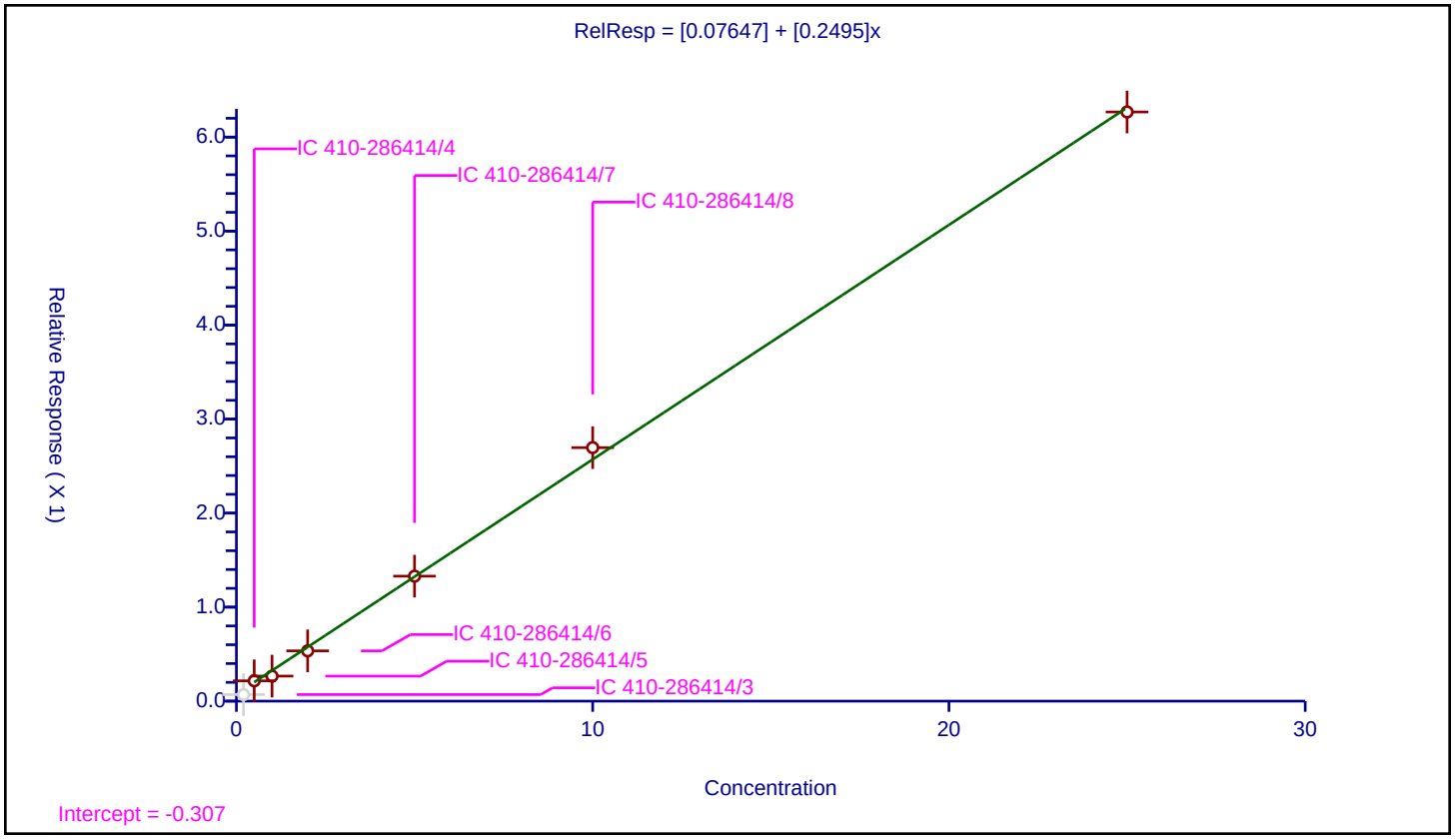
Curve Coefficients

Intercept:	0.07647
Slope:	0.2495

Error Coefficients

Standard Error:	752000
Relative Standard Error:	14.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/3	0.2	0.069971	10.0	2255647.0	0.349855	N
2	IC 410-286414/4	0.5	0.216001	10.0	2258643.0	0.432003	Y
3	IC 410-286414/5	1.0	0.26647	10.0	2221679.0	0.26647	Y
4	IC 410-286414/6	2.0	0.534796	10.0	2269389.0	0.267398	Y
5	IC 410-286414/7	5.0	1.329531	10.0	2226252.0	0.265906	Y
6	IC 410-286414/8	10.0	2.696685	10.0	2248075.0	0.269668	Y
7	IC 410-286414/9	25.0	6.267022	10.0	2131202.0	0.250681	Y



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

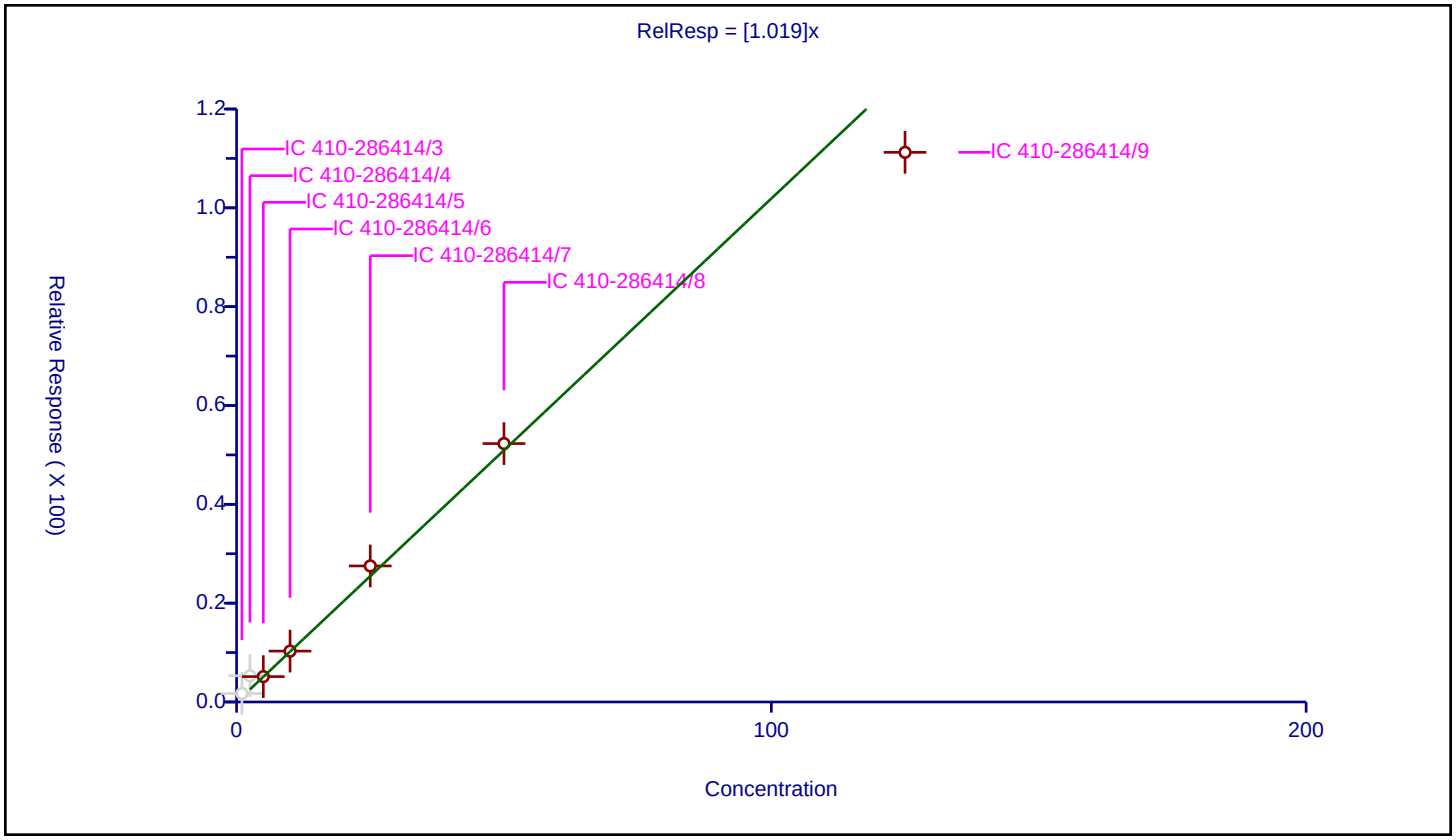
Curve Coefficients

Intercept:	0
Slope:	1.019

Error Coefficients

Standard Error:	149000
Relative Standard Error:	7.7
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/3	1.0	1.716179	50.0	143633.0	1.716179	N
2	IC 410-286414/4	2.5	5.306923	50.0	139921.0	2.122769	N
3	IC 410-286414/5	5.0	5.136032	50.0	134637.0	1.027206	Y
4	IC 410-286414/6	10.0	10.300864	50.0	130790.0	1.030086	Y
5	IC 410-286414/7	25.0	27.528523	50.0	133576.0	1.101141	Y
6	IC 410-286414/8	50.0	52.295885	50.0	122676.0	1.045918	Y
7	IC 410-286414/9	125.0	111.229641	50.0	115676.0	0.889837	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

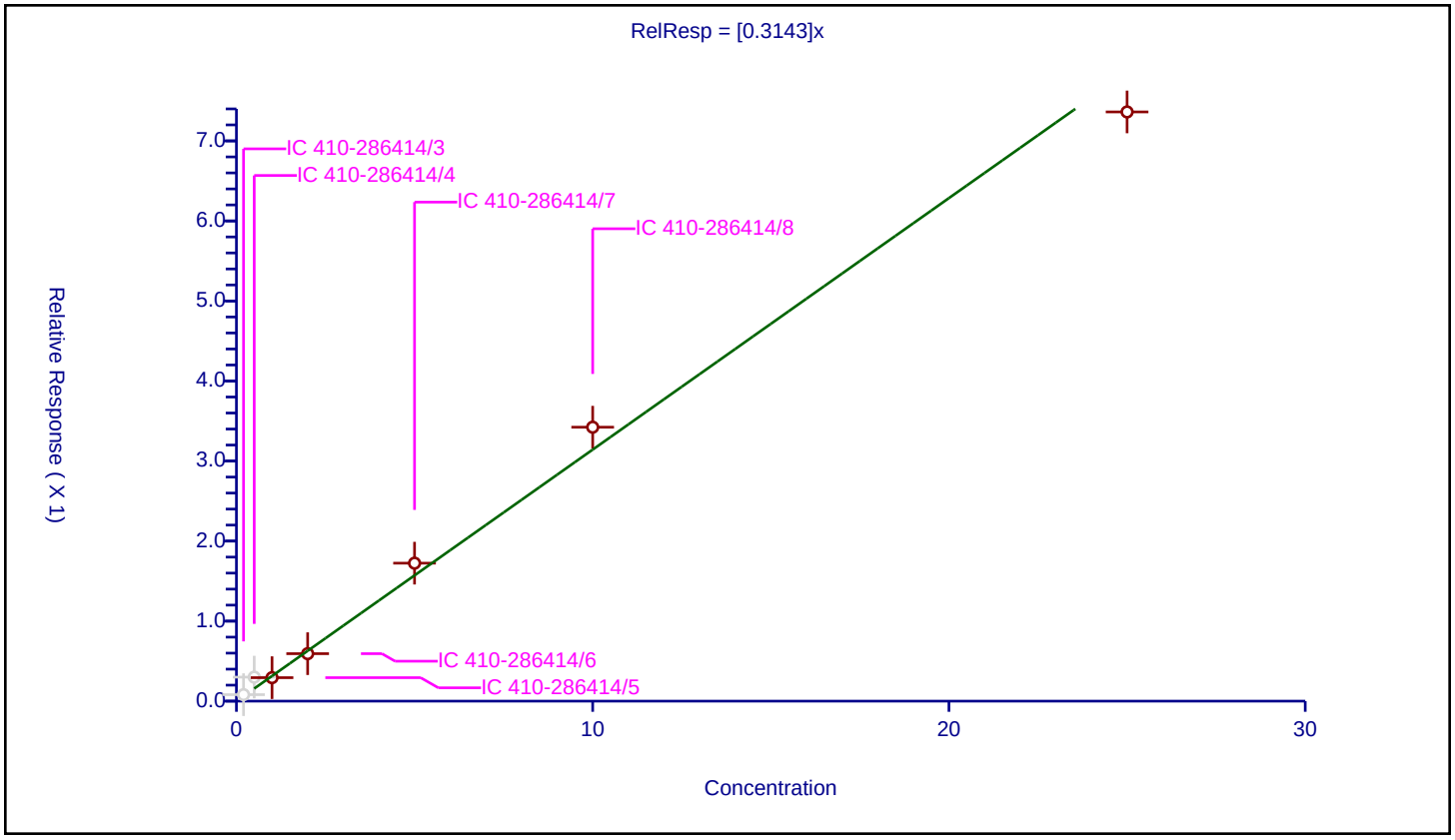
Curve Coefficients

Intercept:	0
Slope:	0.3143

Error Coefficients

Standard Error:	898000
Relative Standard Error:	8.5
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/3	0.2	0.080881	10.0	2255647.0	0.404407	N
2	IC 410-286414/4	0.5	0.300132	10.0	2258643.0	0.600263	N
3	IC 410-286414/5	1.0	0.293274	10.0	2221679.0	0.293274	Y
4	IC 410-286414/6	2.0	0.593049	10.0	2269389.0	0.296525	Y
5	IC 410-286414/7	5.0	1.723852	10.0	2226252.0	0.34477	Y
6	IC 410-286414/8	10.0	3.422795	10.0	2248075.0	0.34228	Y
7	IC 410-286414/9	25.0	7.362179	10.0	2131202.0	0.294487	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

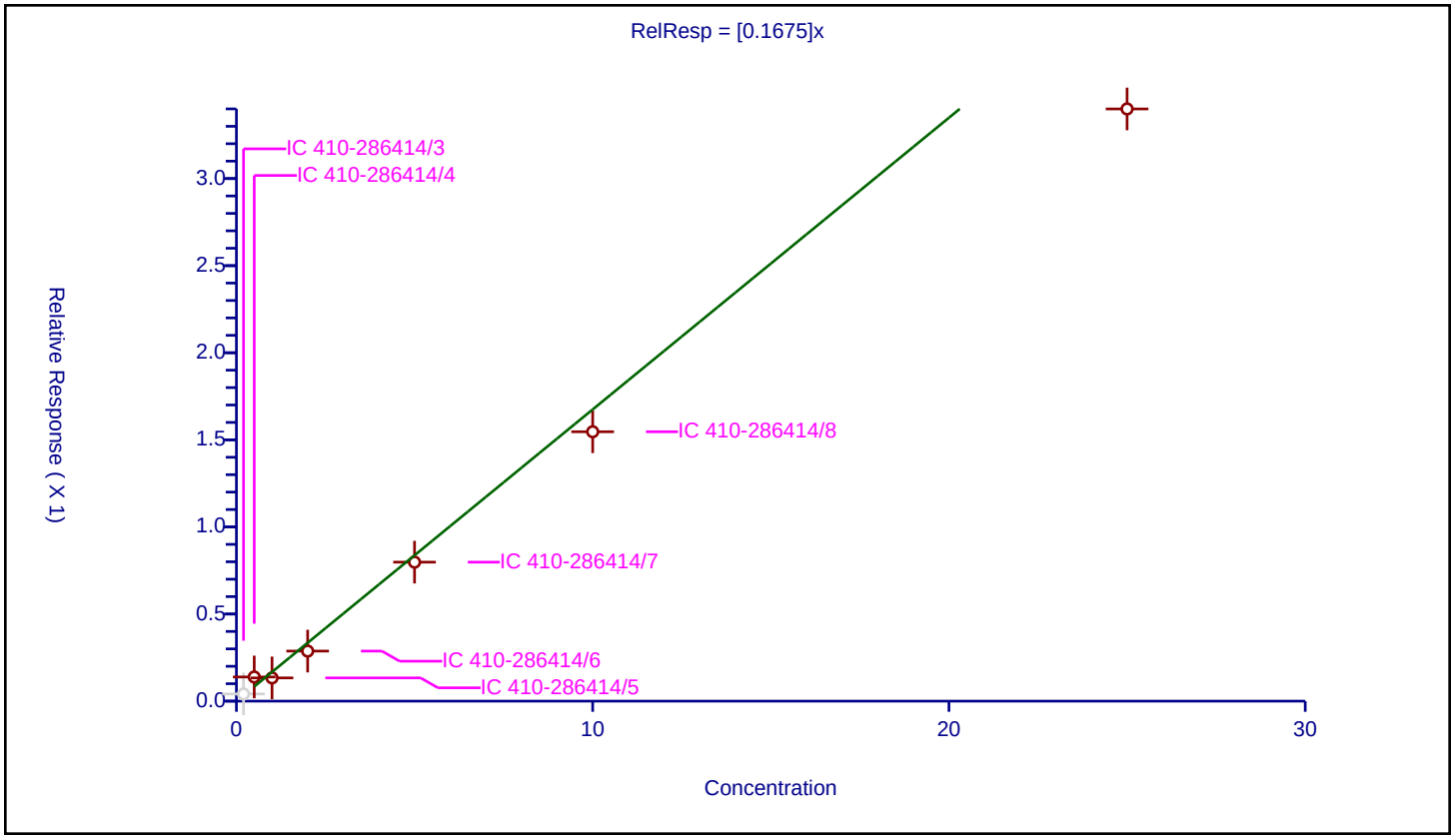
Curve Coefficients

Intercept:	0
Slope:	0.1675

Error Coefficients

Standard Error:	370000
Relative Standard Error:	32.7
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.744

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/3	0.2	0.041141	10.0	2255647.0	0.205706	N
2	IC 410-286414/4	0.5	0.138703	10.0	2258643.0	0.277406	Y
3	IC 410-286414/5	1.0	0.133426	10.0	2221679.0	0.133426	Y
4	IC 410-286414/6	2.0	0.287355	10.0	2269389.0	0.143677	Y
5	IC 410-286414/7	5.0	0.797942	10.0	2226252.0	0.159588	Y
6	IC 410-286414/8	10.0	1.546599	10.0	2248075.0	0.15466	Y
7	IC 410-286414/9	25.0	3.39972	10.0	2131202.0	0.135989	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

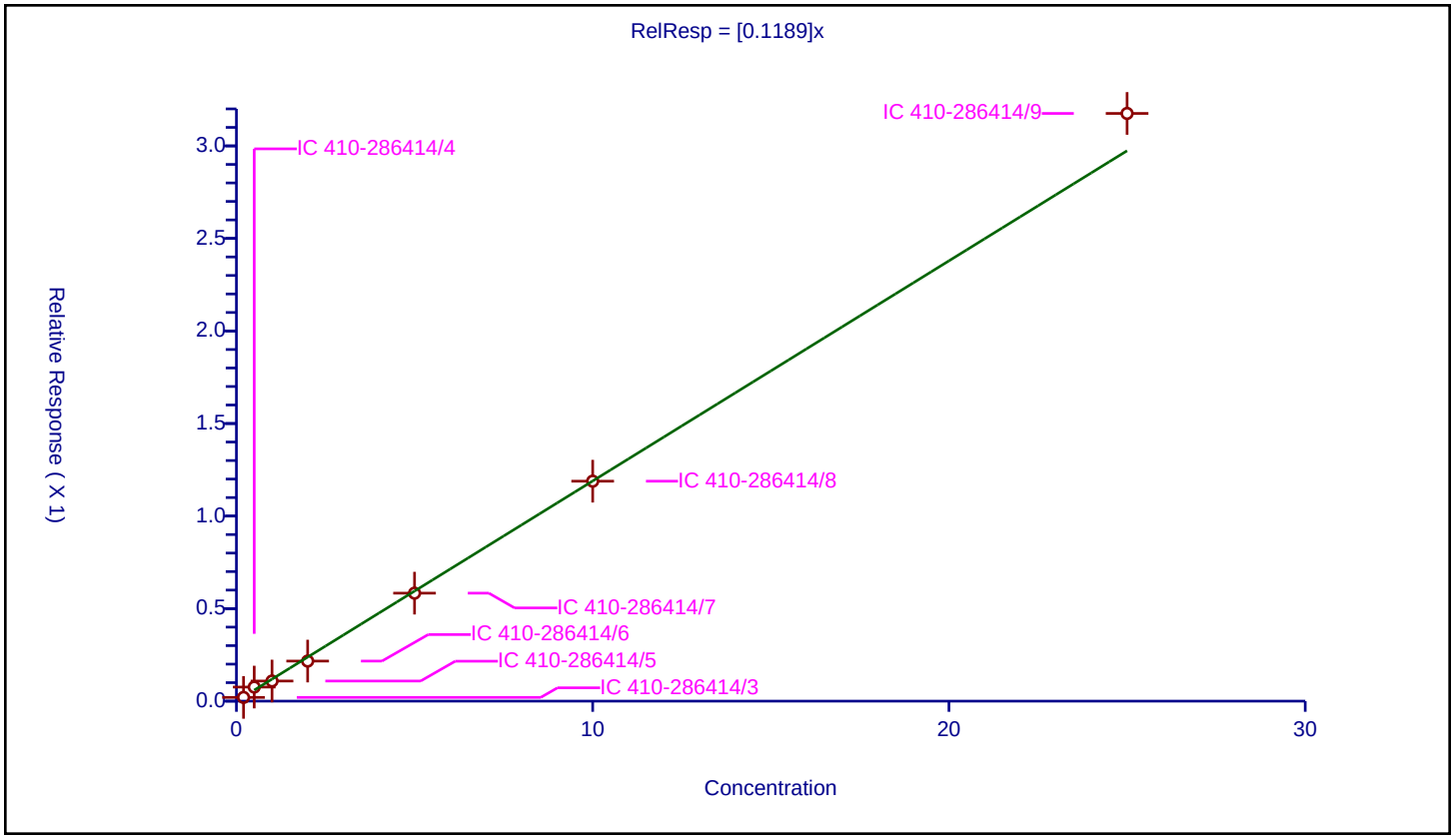
Curve Coefficients

Intercept:	0
Slope:	0.1189

Error Coefficients

Standard Error:	303000
Relative Standard Error:	14.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/3	0.2	0.020185	10.0	2255647.0	0.100924	Y
2	IC 410-286414/4	0.5	0.076108	10.0	2258643.0	0.152215	Y
3	IC 410-286414/5	1.0	0.108711	10.0	2221679.0	0.108711	Y
4	IC 410-286414/6	2.0	0.216464	10.0	2269389.0	0.108232	Y
5	IC 410-286414/7	5.0	0.583487	10.0	2226252.0	0.116697	Y
6	IC 410-286414/8	10.0	1.188528	10.0	2248075.0	0.118853	Y
7	IC 410-286414/9	25.0	3.175429	10.0	2131202.0	0.127017	Y



Calibration / cis-1,4-Dichloro-2-butene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

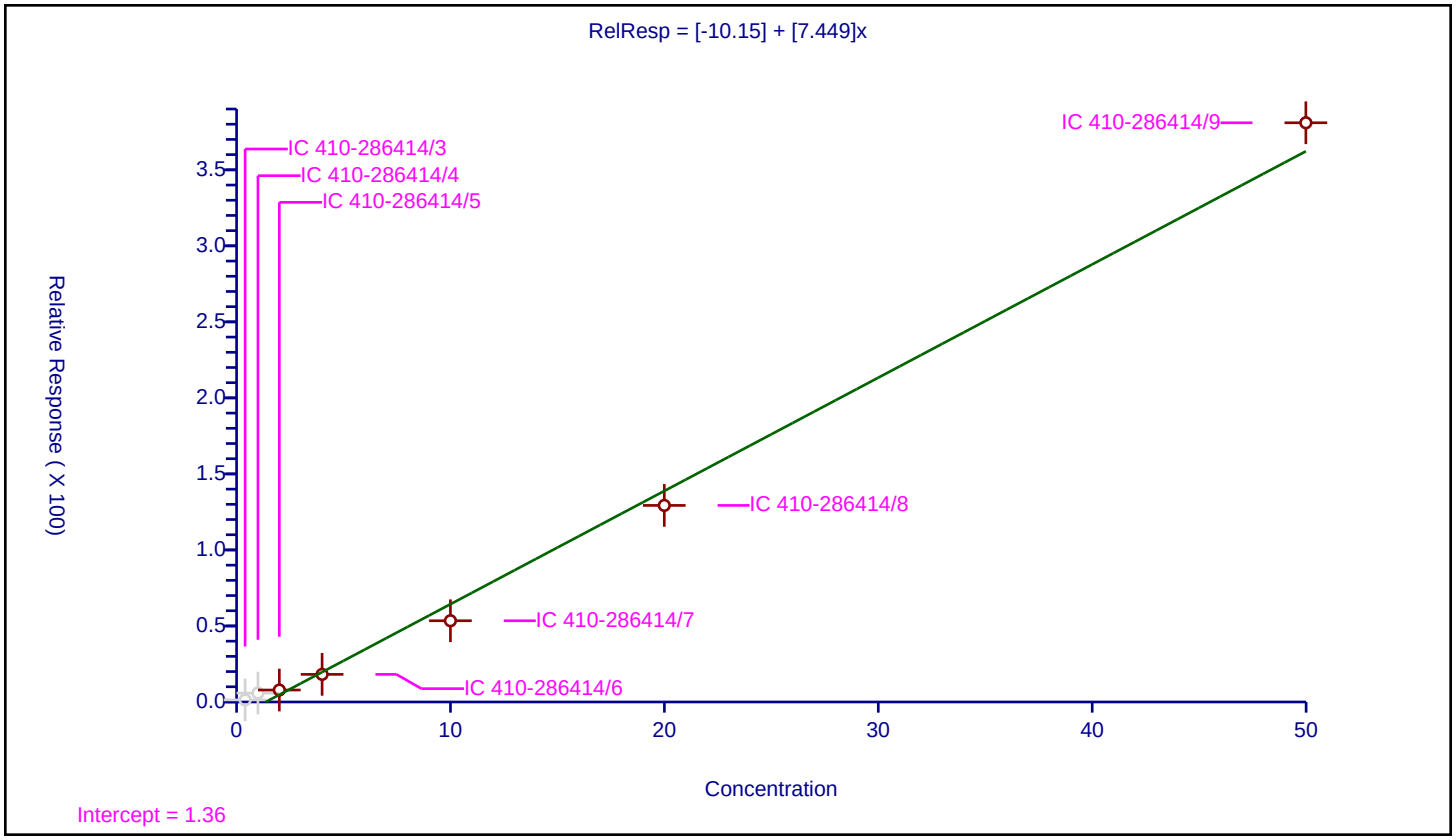
Curve Coefficients

Intercept:	-10.15
Slope:	7.449

Error Coefficients

Standard Error:	548000
Relative Standard Error:	15.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/3	0.399907	1.380602	50.0	143633.0	3.452304	N
2	IC 410-286414/4	0.999769	5.849729	50.0	139921.0	5.851083	N
3	IC 410-286414/5	1.999537	7.858538	50.0	134637.0	3.930179	Y
4	IC 410-286414/6	3.999074	18.165762	50.0	130790.0	4.542492	Y
5	IC 410-286414/7	9.997686	53.438492	50.0	133576.0	5.345086	Y
6	IC 410-286414/8	19.995372	129.284049	50.0	122676.0	6.465699	Y
7	IC 410-286414/9	49.98843	380.948079	50.0	115676.0	7.620725	Y



Calibration / Cyclohexanone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

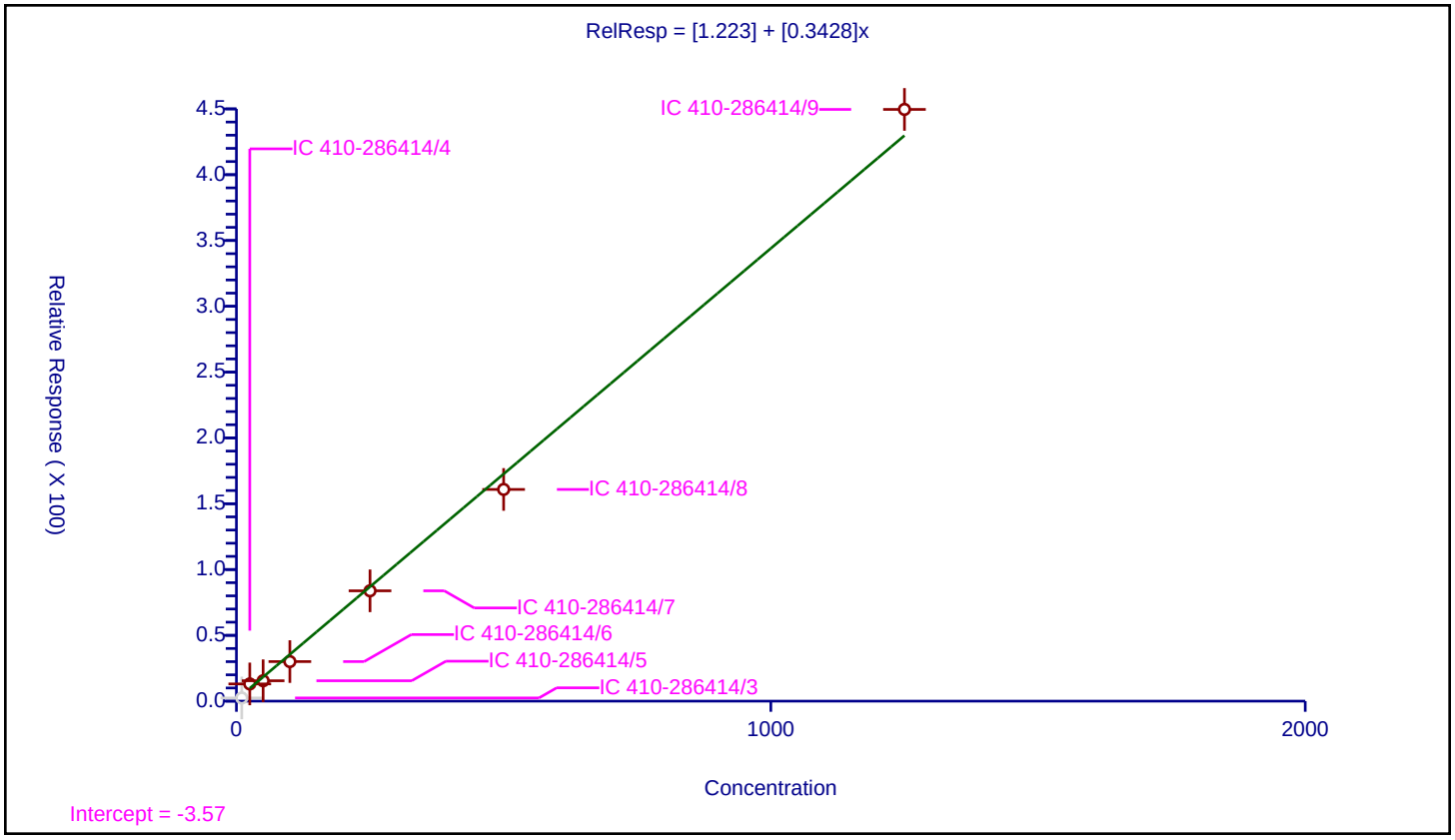
Curve Coefficients

Intercept:	1.223
Slope:	0.3428

Error Coefficients

Standard Error:	569000
Relative Standard Error:	22.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/3	10.000648	2.417968	50.0	143633.0	0.241781	N
2	IC 410-286414/4	25.00162	13.092745	50.0	139921.0	0.523676	Y
3	IC 410-286414/5	50.003239	15.484228	50.0	134637.0	0.309664	Y
4	IC 410-286414/6	100.006478	30.058873	50.0	130790.0	0.300569	Y
5	IC 410-286414/7	250.016196	83.839911	50.0	133576.0	0.335338	Y
6	IC 410-286414/8	500.032392	160.853794	50.0	122676.0	0.321687	Y
7	IC 410-286414/9	1250.08098	449.601905	50.0	115676.0	0.359658	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-286414/13	GG16X12.D
Level 2	IC 410-286414/14	GG16X13.D
Level 3	IC 410-286414/15	GG16X14.D
Level 4	IC 410-286414/16	GG16X15.D
Level 5	IC 410-286414/17	GG16X16.D
Level 6	ICIS 410-286414/18	GG16X17.D
Level 7	IC 410-286414/19	GG16X18.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2457 0.2333	0.2679 0.2376	0.2913	0.2716	0.2695	Ave		0.2596			0.1000	8.2		20.0			
Chloromethane	0.3010 0.2680	0.3209 0.2557	0.3202	0.3015	0.2825	Ave		0.2928			0.1000	8.6		20.0			
Vinyl chloride	0.2750 0.2798	0.3136 0.2769	0.3400	0.3113	0.2981	Ave		0.2992			0.1000	8.1		20.0			
1,3-Butadiene	0.3962 0.2361	0.2987 0.2316	0.2963	0.2712	0.2617	Ave		0.2845				19.6		20.0			
Bromomethane	0.2261 0.2243	0.2483 0.2244	0.2546	0.2408	0.2343	Ave		0.2361			0.1000	5.2		20.0			
Chloroethane	0.1711 0.1694	0.1824 0.1694	0.1965	0.1836	0.1764	Ave		0.1784			0.1000	5.6		20.0			
Dichlorofluoromethane	0.4293 0.4078	0.4569 0.4009	0.4800	0.4495	0.4294	Ave		0.4362			0.1000	6.4		20.0			
Trichlorofluoromethane	0.3753 0.3790	0.4358 0.3852	0.4475	0.4330	0.4236	Ave		0.4114			0.1000	7.4		20.0			
Ethyl ether	0.1833 0.1897	0.1994 0.1892	0.1984	0.1939	0.1823	Ave		0.1909				3.5		20.0			
Freon 123a	0.3032 0.2609	0.3088 0.2619	0.3227	0.2915	0.2851	Ave		0.2906				8.0		20.0			
Acrolein	2.6239 2.1232	2.3576 2.1818	2.1655	2.5762	2.1491	Ave		2.3110				9.2		20.0			
1,1-Dichloroethene	0.2157 0.2028	0.2147 0.2103	0.2350	0.2161	0.2133	Ave		0.2154			0.1000	4.5		20.0			
Freon 113	0.2086 0.1914	0.2084 0.1997	0.2322	0.2167	0.2127	Ave		0.2100			0.1000	6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetone	3.4778 2.1455	2.5760 2.2092	2.4701	2.6493	2.2166	Ave		2.5349			0.1000	18.1		20.0			
Methyl iodide	0.4106 0.3938	0.4131 0.3949	0.4284	0.4138	0.4002	Ave		0.4078				3.0		20.0			
Carbon disulfide	0.4919 0.5411	0.4859 0.5815	0.5418	0.5089	0.5272	Ave		0.5255			0.1000	6.3		20.0			
Methyl acetate	10.313 6.2877	9.3831 6.9017	6.8543	8.4020	6.8845	Ave		7.8609			0.1000	19.4		20.0			
Allyl chloride	0.3032 0.2813	0.2953 0.2871	0.3053	0.2818	0.2808	Ave		0.2907				3.6		20.0			
Methylene Chloride	0.2445 0.2293	0.2399 0.2317	0.2458	0.2471	0.2324	Ave		0.2387			0.1000	3.1		20.0			
t-Butyl alcohol	0.9975 0.7912	1.0123 0.7800	0.8639	0.9552	0.8038	Ave		0.8863				11.3		20.0			
Acrylonitrile	3.2430 3.1698	3.2122 3.2622	3.2828	4.0348	3.3342	Ave		3.3627				8.9		20.0			
Methyl tertiary butyl ether	0.6462 0.5929	0.6119 0.5920	0.6317	0.6281	0.6000	Ave		0.6147			0.1000	3.4		20.0			
trans-1,2-Dichloroethene	0.2496 0.2428	0.2524 0.2450	0.2698	0.2577	0.2438	Ave		0.2516			0.1000	3.8		20.0			
n-Hexane	0.2811 0.2487	0.2748 0.2591	0.3013	0.2783	0.2787	Ave		0.2746				6.1		20.0			
1,1-Dichloroethane	0.4064 0.3951	0.4071 0.4018	0.4350	0.4119	0.4039	Ave		0.4087			0.2000	3.1		20.0			
di-Isopropyl ether	0.6760 0.6619	0.6788 0.6625	0.7011	0.6879	0.6647	Ave		0.6761				2.2		20.0			
2-Chloro-1,3-butadiene	0.3164 0.3173	0.3198 0.3220	0.3513	0.3301	0.3202	Ave		0.3253				3.8		20.0			
Ethyl t-butyl ether	0.7048 0.6794	0.7045 0.6779	0.7128	0.7086	0.6813	Ave		0.6956				2.2		20.0			
2-Butanone	5.5023 4.6054	5.1446 4.6640	5.0361	5.4656	4.6368	Ave		5.0078			0.1000	7.7		20.0			
cis-1,2-Dichloroethene	0.2744 0.2657	0.2693 0.2699	0.2949	0.2793	0.2711	Ave		0.2749			0.1000	3.6		20.0			
2,2-Dichloropropane	0.3257 0.3224	0.3174 0.3286	0.3642	0.3296	0.3262	Ave		0.3306				4.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Propionitrile	1.1974 1.1438	1.2290 1.1642	1.1852	1.2956	1.0910	Ave		1.1866				5.5		20.0			
Methacrylonitrile	5.5175 5.0373	5.2919 5.2107	5.1311	6.0603	5.1499	Ave		5.3427				6.6		20.0			
Bromochloromethane	0.1284 0.1297	0.1306 0.1313	0.1342	0.1370	0.1307	Ave		0.1317				2.2		20.0			
Tetrahydrofuran	1.5483 1.3898	1.5357 1.4131	1.4452	1.6678	1.4061	Ave		1.4866				6.8		20.0			
Chloroform	0.4259 0.4271	0.4441 0.4282	0.4655	0.4460	0.4292	Ave		0.4380			0.2000	3.4		20.0			
1,1,1-Trichloroethane	0.3682 0.3772	0.3765 0.3819	0.4083	0.3826	0.3803	Ave		0.3821			0.1000	3.3		20.0			
Cyclohexane	0.3514 0.3240	0.3424 0.3362	0.3762	0.3534	0.3486	Ave		0.3475			0.1000	4.7		20.0			
Carbon tetrachloride	0.3098 0.3271	0.3130 0.3404	0.3520	0.3295	0.3303	Ave		0.3289			0.1000	4.5		20.0			
1,1-Dichloropropene	0.3344 0.3239	0.3391 0.3275	0.3783	0.3436	0.3302	Ave		0.3396				5.4		20.0			
Isobutyl alcohol	0.0040 0.0035	0.0035 0.0035	0.0036	0.0035	0.0036	Ave		0.0036				5.3		20.0			
Benzene	1.0137 0.9691	1.0044 0.9700	1.0664	1.0122	0.9747	Ave		1.0015			0.5000	3.5		20.0			
1,2-Dichloroethane	0.3028 0.2669	0.2991 0.2702	0.2930	0.2949	0.2719	Ave		0.2855			0.1000	5.3		20.0			
t-Amyl methyl ether	0.6645 0.6467	0.6622 0.6516	0.6741	0.6704	0.6463	Ave		0.6594				1.7		20.0			
n-Heptane	0.3036 0.2605	0.2903 0.2677	0.3149	0.2897	0.2831	Ave		0.2871				6.6		20.0			
n-Butanol	0.1974 0.2718	0.2570 0.2795	0.2579	0.2757	0.2709	Ave		0.2586				10.9		20.0			
Trichloroethene	0.2822 0.2691	0.2774 0.2738	0.3033	0.2802	0.2709	Ave		0.2796			0.2000	4.1		20.0			
Methylcyclohexane	0.4045 0.3915	0.3997 0.4088	0.4542	0.4293	0.4252	Ave		0.4162			0.1000	5.2		20.0			
1,2-Dichloropropane	0.2360 0.2409	0.2485 0.2430	0.2562	0.2467	0.2429	Ave		0.2449			0.1000	2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl methacrylate	9.4928 10.459	10.168 10.755	9.6380	11.724	10.611	Ave		10.407				7.2		20.0			
Dibromomethane	0.1349 0.1326	0.1299 0.1339	0.1400	0.1379	0.1318	Ave		0.1344				2.6		20.0			
1,4-Dioxane	0.0084 0.0576	0.0363 0.0532	0.0586	0.0549	0.0578	Lin2	-0.503	0.0594			0.0050				0.9920		0.9900
Bromodichloromethane	0.2777 0.3038	0.2789 0.3132	0.2991	0.2924	0.2949	Ave		0.2943			0.2000	4.4		20.0			
2-Nitropropane	2.2316 2.4388	2.1338 2.6914	2.0614	2.4994	2.3243	Ave		2.3401				9.4		20.0			
cis-1,3-Dichloropropene	0.3279 0.3901	0.3438 0.3988	0.3562	0.3731	0.3797	Ave		0.3671			0.2000	7.0		20.0			
4-Methyl-2-pentanone	13.414 12.675	13.132 12.621	12.971	14.741	12.720	Ave		13.182			0.1000	5.6		20.0			
Toluene	0.8603 0.8405	0.8617 0.8434	0.9414	0.8781	0.8467	Ave		0.8674			0.4000	4.0		20.0			
trans-1,3-Dichloropropene	0.3451 0.4212	0.3423 0.4346	0.3711	0.3901	0.4004	Ave		0.3864			0.1000	9.2		20.0			
Ethyl methacrylate	0.3178 0.3541	0.3039 0.3583	0.3247	0.3373	0.3335	Ave		0.3328				5.8		20.0			
1,1,2-Trichloroethane	0.2596 0.2488	0.2551 0.2487	0.2682	0.2560	0.2494	Ave		0.2551			0.1000	2.8		20.0			
Tetrachloroethene	0.4436 0.4166	0.4329 0.4188	0.4833	0.4359	0.4269	Ave		0.4369			0.2000	5.2		20.0			
1,3-Dichloropropane	0.4134 0.4111	0.4179 0.4133	0.4361	0.4240	0.4140	Ave		0.4185				2.1		20.0			
2-Hexanone	8.9214 9.6179	9.4983 9.6918	9.4755	10.658	9.4019	Ave		9.6093			0.1000	5.5		20.0			
Dibromochloromethane	0.2258 0.3074	0.2493 0.3246	0.2752	0.2842	0.2866	Ave		0.2790				12.0		20.0			
1,2-Dibromoethane	0.2447 0.2523	0.2417 0.2531	0.2589	0.2567	0.2507	Ave		0.2511			0.1000	2.5		20.0			
1-Chlorohexane	0.5490 0.4480	0.4868 0.4594	0.5262	0.4744	0.4594	Ave		0.4862				7.8		20.0			
Chlorobenzene	1.0482 1.0083	1.0601 1.0055	1.1566	1.0573	1.0132	Ave		1.0499			0.5000	5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1,2-Tetrachloroethane	0.2938 0.3519	0.3212 0.3637	0.3419	0.3427	0.3438	Ave		0.3370				6.8		20.0			
Ethylbenzene	1.6784 1.6334	1.6670 1.6426	1.8094	1.6932	1.6472	Ave		1.6816			0.1000	3.6		20.0			
m&p-Xylene	0.6469 0.6636	0.6606 0.6717	0.7412	0.6842	0.6627	Ave		0.6759			0.1000	4.6		20.0			
o-Xylene	0.6588 0.6598	0.6540 0.6672	0.7102	0.6763	0.6606	Ave		0.6696			0.3000	2.9		20.0			
Styrene	1.0568 1.1343	1.0818 1.1457	1.2498	1.1465	1.1246	Ave		1.1342			0.3000	5.4		20.0			
Bromoform	0.1170 0.1861	0.1199 0.2036	0.1523	0.1536	0.1668	Ave		0.1570			0.1000	20.3	*	20.0			
Isopropylbenzene	1.6553 1.6820	1.6901 1.6850	1.8459	1.7215	1.7026	Ave		1.7118			0.1000	3.7		20.0			
1,1,2,2-Tetrachloroethane	0.5362 0.5348	0.5068 0.5294	0.5612	0.5429	0.5278	Ave		0.5342			0.3000	3.1		20.0			
Bromobenzene	0.7422 0.7469	0.7508 0.7407	0.8801	0.7780	0.7496	Ave		0.7697				6.5		20.0			
trans-1,4-Dichloro-2-butene	4.1093 5.1577	4.4104 5.3912	4.6035	5.3346	4.9205	Ave		4.8467				10.1		20.0			
1,2,3-Trichloropropane	0.1557 0.1524	0.1486 0.1521	0.1630	0.1531	0.1490	Ave		0.1534				3.2		20.0			
N-Propylbenzene	3.3134 3.2595	3.3169 3.2002	3.7553	3.3749	3.3206	Ave		3.3630				5.4		20.0			
2-Chlorotoluene	0.7494 0.7128	0.7310 0.7169	0.8148	0.7280	0.7237	Ave		0.7395				4.8		20.0			
1,3,5-Trimethylbenzene	2.4462 2.4797	2.4910 2.4712	2.7107	2.5334	2.5017	Ave		2.5191				3.5		20.0			
4-Chlorotoluene	0.7402 0.7391	0.7448 0.7436	0.9316	0.7592	0.7517	Ave		0.7729				9.1		20.0			
tert-Butylbenzene	0.5675 0.5876	0.5700 0.5499	0.6245	0.5593	0.6048	Ave		0.5805				4.6		20.0			
Pentachloroethane	0.3155 0.4701	0.3711 0.4858	0.4066	0.4193	0.4393	Ave		0.4154				14.1		20.0			
1,2,4-Trimethylbenzene	2.4618 2.5720	2.5342 2.5672	2.8300	2.6244	2.5763	Ave		2.5951				4.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	3.0209 3.0995	3.0817 3.0692	3.5161	3.1802	3.1487	Ave		3.1595				5.2		20.0			
1,3-Dichlorobenzene	1.5442 1.5232	1.5453 1.5246	1.8960	1.5646	1.5295	Ave		1.5896			0.6000	8.5		20.0			
p-Isopropyltoluene	2.7640 2.8429	2.7684 2.8386	3.1775	2.9138	2.8617	Ave		2.8810				4.9		20.0			
1,4-Dichlorobenzene	1.6405 1.5530	1.6011 1.5446	2.1605	1.5914	1.5595	Ave		1.6644			0.5000	13.3		20.0			
1,2,3-Trimethylbenzene	1.1622 1.1557	1.2054 1.1712	1.2839	1.1941	1.1676	Ave		1.1914				3.7		20.0			
Benzyl chloride	0.1168 0.2030	0.1277 0.2213	0.1528	0.1677	0.1857	Lin1	-0.036	0.2132							0.9950		0.9900
n-Butylbenzene	1.3860 1.3654	1.3448 1.3744	1.6035	1.3852	1.3906	Ave		1.4071				6.3		20.0			
1,2-Dichlorobenzene	1.4594 1.4234	1.4457 1.4307	1.7714	1.4790	1.4319	Ave		1.4916			0.4000	8.4		20.0			
1,2-Dibromo-3-Chloropropane	0.0658 0.0888	0.0624 0.0903	0.0820	0.0794	0.0820	Ave		0.0787			0.0500	13.6		20.0			
1,3,5-Trichlorobenzene	1.2395 1.2312	1.2450 1.2236	1.5527	1.2483	1.2304	Ave		1.2815				9.4		20.0			
1,2,4-Trichlorobenzene	1.1208 1.1481	1.0886 1.1425	1.6215	1.1511	1.1395	Ave		1.2017			0.2000	15.5		20.0			
Hexachlorobutadiene	0.5384 0.5484	0.5610 0.5478	0.6878	0.5522	0.5513	Ave		0.5695				9.2		20.0			
Naphthalene	1.8901 2.0290	1.8524 2.0047	2.5023	1.9831	1.9750	Ave		2.0338				10.6		20.0			
1,2,3-Trichlorobenzene	1.0098 1.0256	0.9910 1.0107	1.3766	1.0111	1.0095	Ave		1.0621				13.1		20.0			
Dibromofluoromethane (Surr)	0.2463 0.2469	0.2483 0.2506	0.2474	0.2505	0.2479	Ave		0.2483				0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0544 0.0519	0.0530 0.0521	0.0525	0.0529	0.0523	Ave		0.0527				1.6		20.0			
Toluene-d8 (Surr)	1.2730 1.2819	1.2824 1.2832	1.2802	1.2839	1.2798	Ave		1.2806				0.3		20.0			
4-Bromofluorobenzene (Surr)	0.4749 0.4773	0.4762 0.4769	0.4759	0.4777	0.4778	Ave		0.4767				0.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-286414/13	GG16X12.D
Level 2	IC 410-286414/14	GG16X13.D
Level 3	IC 410-286414/15	GG16X14.D
Level 4	IC 410-286414/16	GG16X15.D
Level 5	IC 410-286414/17	GG16X16.D
Level 6	ICIS 410-286414/18	GG16X17.D
Level 7	IC 410-286414/19	GG16X18.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	10833 543104	29864 1418980	64970	121942	309456	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	13270 623926	35763 1527322	71408	135367	324413	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	12126 651365	34951 1653785	75827	139755	342332	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	17469 549707	33291 1383220	66066	121727	300502	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	9970 522151	27671 1340018	56777	108098	269090	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	7546 394390	20330 1011950	43829	82418	202614	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	18929 949402	50922 2394155	107037	201792	493140	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	16549 882397	48579 2300799	99801	194398	486482	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	8083 441887	22237 1130526	44254	87075	209424	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	13369 607384	34418 1564197	71956	130855	327426	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	69888 3027113	151628 7837578	296541	643594	1523859	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	9511 472163	23932 1255687	52396	96997	245013	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 113	FB	Ave	9199 445620	23226 1192898	51784	97302	244299	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acetone	TBAd10	Ave	18527 611780	33136 1587280	67653	132378	314354	2.00 100	5.00 250	10.0	20.0	50.0
Methyl iodide	FB	Ave	18105 916804	46041 2358489	95536	185762	459604	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	21688 1259914	54155 3472934	120809	228472	605450	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	5494 179295	12070 495870	18773	41982	97635	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	13371 654957	32910 1714730	68077	126514	322428	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10782 533973	26736 1383829	54805	110925	266839	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	10628 451212	26043 1120844	47324	95457	227979	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	4319 225968	10330 585945	22478	50401	118213	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tertiary butyl ether	FB	Ave	28492 1380419	68201 3535898	140874	281948	689081	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	11005 565209	28136 1463454	60166	115672	280004	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	12394 578952	30635 1547621	67189	124939	320065	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	17921 919788	45372 2399785	96997	184918	463810	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	29808 1541107	75661 3956491	156342	308794	763339	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	13953 738815	35647 1923095	78331	148170	367689	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	31075 1581755	78529 4048605	158948	318098	782406	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone	TBAd10	Ave	29312	66177	137933	273098	657590	2.00	5.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1313238	3350978				100	250			
cis-1,2-Dichloroethene	FB	Ave	12099 618550	30021 1611946	65758	125389	311354	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	14359 750727	35373 1962445	81208	147961	374656	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	12758 652308	31618 1672892	64922	129473	309435	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	29393 1436385	68072 3743786	140534	302812	730347	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5663 302068	14558 784323	29925	61518	150087	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	4124 198158	9877 507621	19791	41668	99709	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	18779 994318	49500 2557412	103813	200225	492942	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	16235 878121	41961 2280597	91058	171777	436738	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	15495 754352	38165 2007902	83885	158669	400341	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	13659 761646	34892 2033131	78504	147932	379275	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	14746 754145	37795 1956120	84366	154228	379228	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	FB	Ave	8806 402616	19769 1033218	39678	77842	207990	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	44699 2256270	111956 5793032	237804	454392	1119385	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	13351 621312	33333 1613440	65349	132376	312259	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	29301 1505621	73806 3891489	150323	300963	742232	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	13386 606617	32359 1598920	70226	130073	325135	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	TBAd 10	Ave	9201 678077	28924 1757161	61810	120549	336181	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	12445 626486	30922 1634955	67641	125798	311065	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	17837 911479	44548 2441489	101289	192698	488253	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	10406 560993	27694 1450984	57142	110737	278961	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	5057 298228	13080 772725	26397	58583	150481	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromomethane	FB	Ave	5946 308678	14481 799889	31212	61890	151360	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Lin2	225 82057	2333 191177	8023	13711	40992	10.0 500	25.0 1250	50.0	100	250
Bromodichloromethane	FB	Ave	12244 707245	31086 1870494	66707	131278	338682	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	5944 347717	13724 966836	28229	62444	164814	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	14460 908206	38315 2381867	79430	167481	436053	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone	TBAd 10	Ave	71460 3614306	168921 9067989	355253	736571	1803882	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	29966 1543929	75624 3979367	166283	310469	768926	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	12020 773723	30039 2050452	65556	137931	363656	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	11070 650478	26673 1690447	57347	119274	302877	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloroethane	CBZd 5	Ave	9043 457075	22386 1173341	47367	90526	226496	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	15452 765371	37991 1975922	85370	154129	387678	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	14400 755285	36673 1950083	77024	149909	375996	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	47526 2742555	122181 6963294	259520	532561	1333367	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	7866 564766	21881 1531577	48615	100469	260325	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane	CBZd 5	Ave	8523 463425	21212 1193896	45733	90775	227669	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	19124 822913	42721 2167500	92947	167744	417226	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	36514 1852203	93034 4743809	204292	373854	920189	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	10235 646499	28190 1716072	60398	121181	312197	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	58464 3000498	146301 7749772	319592	598666	1495963	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	45066 2438249	115958 6338596	261822	483843	1203658	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	22948 1212115	57392 3147850	125445	239128	599982	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBZd 5	Ave	36813 2083651	94941 5405404	220754	405386	1021299	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	4074 341791	10522 960530	26899	54321	151523	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	57659 3089905	148324 7949878	326045	608693	1546232	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	11082 586290	26537 1506637	58969	114734	283824	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	15338 818805	39314 2107684	92485	164416	403102	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	21891 1470724	56733 3873432	126083	266551	697816	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	3217 167099	7781 432760	17133	32366	80131	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	68475 3573339	173695 9106742	394622	713265	1785725	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	15487 781491	38278 2040219	85619	153864	389174	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	50554 2718476	130441 7032261	284846	535420	1345338	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	15297 810236	39001 2115951	97891	160453	404234	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	11728 644132	29851 1564947	65628	118213	325244	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Pentachloroethane	DCBd 4	Ave	6521 515383	19435 1382400	42730	88614	236231	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	50876 2819726	132706 7305524	297385	554653	1385450	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	62431 3397918	161376 8733955	369489	672099	1693291	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	31913 1669850	80921 4338435	199241	330665	822505	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	57121 3116611	144968 8077811	333901	615806	1538963	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	33904 1702506	83845 4395359	227035	336330	838636	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	24019 1267015	63120 3332795	134921	252371	627888	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Lin1	2414 222558	6688 629836	16060	35450	99881	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	28644 1496880	70421 3911257	168500	292758	747850	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	30160 1560520	75705 4071402	186141	312578	770054	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1359 97321	3270 256886	8619	16770	44123	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	25616 1349753	65196 3481934	163162	263813	661659	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trichlorobenzene	DCBd 4	Ave	23162 1258666	57005 3251198	170397	243272	612781	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	11127 601182	29376 1558972	72272	116692	296487	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	39062 2224425	97004 5704671	262955	419110	1062115	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	20869 1124358	51896 2876206	144662	213681	542883	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	542956 574786	553438 598690	551657	562381	569458	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	119857 120860	118255 124380	117134	118676	120145	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2217229 2354853	2250850 2421715	2261224	2269767	2324549	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	827194 876789	835927 899968	840581	844497	867829	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-286414/13	GG16X12.D
Level 2	IC 410-286414/14	GG16X13.D
Level 3	IC 410-286414/15	GG16X14.D
Level 4	IC 410-286414/16	GG16X15.D
Level 5	IC 410-286414/17	GG16X16.D
Level 6	ICIS 410-286414/18	GG16X17.D
Level 7	IC 410-286414/19	GG16X18.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-5.3 -8.5	3.2	12.2	4.7	3.8	-10.1	50 30	30	30	30	30	30
Chloromethane	2.8 -12.7	9.6	9.4	3.0	-3.5	-8.5	50 30	30	30	30	30	30
Vinyl chloride	-8.1 -7.5	4.8	13.6	4.0	-0.4	-6.5	50 30	30	30	30	30	30
1,3-Butadiene	39.2 -18.6	5.0	4.1	-4.7	-8.0	-17.0	50 30	30	30	30	30	30
Bromomethane	-4.2 -5.0	5.1	7.8	2.0	-0.8	-5.0	50 30	30	30	30	30	30
Chloroethane	-4.1 -5.0	2.2	10.2	2.9	-1.1	-5.1	50 30	30	30	30	30	30
Dichlorofluoromethane	-1.6 -8.1	4.7	10.0	3.0	-1.6	-6.5	50 30	30	30	30	30	30
Trichlorofluoromethane	-8.8 -6.4	5.9	8.8	5.3	3.0	-7.9	50 30	30	30	30	30	30
Ethyl ether	-4.0 -0.9	4.5	3.9	1.6	-4.5	-0.6	50 30	30	30	30	30	30
Freon 123a	4.3 -9.9	6.3	11.0	0.3	-1.9	-10.2	50 30	30	30	30	30	30
Acrolein	13.5 -5.6	2.0	-6.3	11.5	-7.0	-8.1	50 30	30	30	30	30	30
1,1-Dichloroethene	0.1 -2.4	-0.3	9.1	0.3	-1.0	-5.9	50 30	30	30	30	30	30
Freon 113	-0.6 -4.9	-0.8	10.6	3.2	1.3	-8.8	50 30	30	30	30	30	30
Acetone	37.2 -12.8	1.6	-2.6	4.5	-12.6	-15.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl iodide	0.7 -3.2	1.3	5.0	1.5	-1.9	-3.4	50 30	30	30	30	30	30
Carbon disulfide	-6.4 10.7	-7.5	3.1	-3.1	0.3	3.0	50 30	30	30	30	30	30
Methyl acetate	31.2 -12.2	19.4	-12.8	6.9	-12.4	-20.0	50 30	30	30	30	30	30
Allyl chloride	4.3 -1.2	1.6	5.0	-3.0	-3.4	-3.2	50 30	30	30	30	30	30
Methylene Chloride	2.5 -2.9	0.5	3.0	3.5	-2.6	-3.9	50 30	30	30	30	30	30
t-Butyl alcohol	12.6 -12.0	14.2	-2.5	7.8	-9.3	-10.7	50 30	30	30	30	30	30
Acrylonitrile	-3.6 -3.0	-4.5	-2.4	20.0	-0.8	-5.7	50 30	30	30	30	30	30
Methyl tertiary butyl ether	5.1 -3.7	-0.5	2.8	2.2	-2.4	-3.5	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-0.8 -2.6	0.3	7.2	2.4	-3.1	-3.5	50 30	30	30	30	30	30
n-Hexane	2.4 -5.6	0.1	9.7	1.4	1.5	-9.4	50 30	30	30	30	30	30
1,1-Dichloroethane	-0.6 -1.7	-0.4	6.4	0.8	-1.2	-3.3	50 30	30	30	30	30	30
di-Isopropyl ether	0.0 -2.0	0.4	3.7	1.7	-1.7	-2.1	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-2.7 -1.0	-1.7	8.0	1.5	-1.6	-2.5	50 30	30	30	30	30	30
Ethyl t-butyl ether	1.3 -2.5	1.3	2.5	1.9	-2.1	-2.3	50 30	30	30	30	30	30
2-Butanone	9.9 -6.9	2.7	0.6	9.1	-7.4	-8.0	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-0.2 -1.8	-2.0	7.3	1.6	-1.4	-3.4	50 30	30	30	30	30	30
2,2-Dichloropropane	-1.5 -0.6	-4.0	10.2	-0.3	-1.3	-2.5	50 30	30	30	30	30	30
Propionitrile	0.9 -1.9	3.6	-0.1	9.2	-8.1	-3.6	50 30	30	30	30	30	30
Methacrylonitrile	3.3 -2.5	-1.0	-4.0	13.4	-3.6	-5.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Bromochloromethane	-2.5 -0.3	-0.8	1.9	4.0	-0.8	-1.5	50 30	30	30	30	30	30
Tetrahydrofuran	4.2 -4.9	3.3	-2.8	12.2	-5.4	-6.5	50 30	30	30	30	30	30
Chloroform	-2.8 -2.2	1.4	6.3	1.8	-2.0	-2.5	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-3.6 -0.1	-1.5	6.9	0.1	-0.5	-1.3	50 30	30	30	30	30	30
Cyclohexane	1.1 -3.2	-1.5	8.3	1.7	0.3	-6.8	50 30	30	30	30	30	30
Carbon tetrachloride	-5.8 3.5	-4.8	7.0	0.2	0.4	-0.5	50 30	30	30	30	30	30
1,1-Dichloropropene	-1.5 -3.5	-0.1	11.4	1.2	-2.8	-4.6	50 30	30	30	30	30	30
Isobutyl alcohol	11.4 -3.5	-1.1	-0.8	-3.3	1.0	-3.6	50 30	30	30	30	30	30
Benzene	1.2 -3.1	0.3	6.5	1.1	-2.7	-3.2	50 30	30	30	30	30	30
1,2-Dichloroethane	6.0 -5.4	4.7	2.6	3.3	-4.8	-6.5	50 30	30	30	30	30	30
t-Amyl methyl ether	0.8 -1.2	0.4	2.2	1.7	-2.0	-1.9	50 30	30	30	30	30	30
n-Heptane	5.7 -6.8	1.1	9.7	0.9	-1.4	-9.3	50 30	30	30	30	30	30
n-Butanol	-23.7 8.1	-0.6	-0.3	6.6	4.8	5.1	50 30	30	30	30	30	30
Trichloroethene	1.0 -2.1	-0.8	8.5	0.2	-3.1	-3.7	50 30	30	30	30	30	30
Methylcyclohexane	-2.8 -1.8	-4.0	9.1	3.1	2.2	-5.9	50 30	30	30	30	30	30
1,2-Dichloropropane	-3.6 -0.8	1.5	4.6	0.7	-0.8	-1.6	50 30	30	30	30	30	30
Methyl methacrylate	-8.8 3.3	-2.3	-7.4	12.7	2.0	0.5	50 30	30	30	30	30	30
Dibromomethane	0.3 -0.4	-3.3	4.1	2.6	-1.9	-1.4	50 30	30	30	30	30	30
1,4-Dioxane	-1.1 -9.7	-5.0	15.6	0.9	0.7	-1.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Bromodichloromethane	-5.6 6.4	-5.2	1.6	-0.6	0.2	3.2	50 30	30	30	30	30	30
2-Nitropropane	-4.6 15.0	-8.8	-11.9	6.8	-0.7	4.2	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-10.7 8.6	-6.4	-3.0	1.6	3.4	6.3	50 30	30	30	30	30	30
4-Methyl-2-pentanone	1.8 -4.3	-0.4	-1.6	11.8	-3.5	-3.8	50 30	30	30	30	30	30
Toluene	-0.8 -2.8	-0.7	8.5	1.2	-2.4	-3.1	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-10.7 12.5	-11.4	-3.9	1.0	3.6	9.0	50 30	30	30	30	30	30
Ethyl methacrylate	-4.5 7.7	-8.7	-2.4	1.4	0.2	6.4	50 30	30	30	30	30	30
1,1,2-Trichloroethane	1.8 -2.5	0.0	5.1	0.4	-2.2	-2.5	50 30	30	30	30	30	30
Tetrachloroethene	1.5 -4.1	-0.9	10.6	-0.2	-2.3	-4.6	50 30	30	30	30	30	30
1,3-Dichloropropane	-1.2 -1.2	-0.2	4.2	1.3	-1.1	-1.8	50 30	30	30	30	30	30
2-Hexanone	-7.2 0.9	-1.2	-1.4	10.9	-2.2	0.1	50 30	30	30	30	30	30
Dibromochloromethane	-19.1 16.3	-10.6	-1.4	1.8	2.7	10.2	50 30	30	30	30	30	30
1,2-Dibromoethane	-2.6 0.8	-3.8	3.1	2.2	-0.2	0.4	50 30	30	30	30	30	30
1-Chlorohexane	12.9 -5.5	0.1	8.2	-2.4	-5.5	-7.9	50 30	30	30	30	30	30
Chlorobenzene	-0.2 -4.2	1.0	10.2	0.7	-3.5	-4.0	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-12.8 7.9	-4.7	1.5	1.7	2.0	4.4	50 30	30	30	30	30	30
Ethylbenzene	-0.2 -2.3	-0.9	7.6	0.7	-2.0	-2.9	50 30	30	30	30	30	30
m&p-Xylene	-4.3 -0.6	-2.3	9.7	1.2	-1.9	-1.8	50 30	30	30	30	30	30
o-Xylene	-1.6 -0.4	-2.3	6.1	1.0	-1.3	-1.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Styrene	-6.8 1.0	-4.6	10.2	1.1	-0.9	0.0	50 30	30	30	30	30	30
Bromoform	-25.5 29.6	-23.7	-3.0	-2.2	6.2	18.5	50 30	30	30	30	30	30
Isopropylbenzene	-3.3 -1.6	-1.3	7.8	0.6	-0.5	-1.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	0.4 -0.9	-5.1	5.1	1.6	-1.2	0.1	50 30	30	30	30	30	30
Bromobenzene	-3.6 -3.8	-2.5	14.3	1.1	-2.6	-3.0	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-15.2 11.2	-9.0	-5.0	10.1	1.5	6.4	50 30	30	30	30	30	30
1,2,3-Trichloropropane	1.5 -0.9	-3.1	6.3	-0.2	-2.9	-0.7	50 30	30	30	30	30	30
N-Propylbenzene	-1.5 -4.8	-1.4	11.7	0.4	-1.3	-3.1	50 30	30	30	30	30	30
2-Chlorotoluene	1.3 -3.1	-1.2	10.2	-1.6	-2.1	-3.6	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-2.9 -1.9	-1.1	7.6	0.6	-0.7	-1.6	50 30	30	30	30	30	30
4-Chlorotoluene	-4.2 -3.8	-3.6	20.5	-1.8	-2.7	-4.4	50 30	30	30	30	30	30
tert-Butylbenzene	-2.2 -5.3	-1.8	7.6	-3.6	4.2	1.2	50 30	30	30	30	30	30
Pentachloroethane	-24.0 16.9	-10.7	-2.1	0.9	5.7	13.2	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-5.1 -1.1	-2.3	9.0	1.1	-0.7	-0.9	50 30	30	30	30	30	30
sec-Butylbenzene	-4.4 -2.9	-2.5	11.3	0.7	-0.3	-1.9	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-2.9 -4.1	-2.8	19.3	-1.6	-3.8	-4.2	50 30	30	30	30	30	30
p-Isopropyltoluene	-4.1 -1.5	-3.9	10.3	1.1	-0.7	-1.3	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-1.4 -7.2	-3.8	29.8	-4.4	-6.3	-6.7	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-2.5 -1.7	1.2	7.8	0.2	-2.0	-3.0	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Benzyl chloride	39.0 4.5	-6.4	-11.5	-12.9	-9.5	-3.1	50 30	30	30	30	30	30
n-Butylbenzene	-1.5 -2.3	-4.4	14.0	-1.6	-1.2	-3.0	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-2.2 -4.1	-3.1	18.8	-0.8	-4.0	-4.6	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-16.4 14.8	-20.6	4.3	0.9	4.3	12.8	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-3.3 -4.5	-2.8	21.2	-2.6	-4.0	-3.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-6.7 -4.9	-9.4	34.9 *	-4.2	-5.2	-4.5	50 30	30	30	30	30	30
Hexachlorobutadiene	-5.5 -3.8	-1.5	20.8	-3.1	-3.2	-3.7	50 30	30	30	30	30	30
Naphthalene	-7.1 -1.4	-8.9	23.0	-2.5	-2.9	-0.2	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-4.9 -4.8	-6.7	29.6	-4.8	-4.9	-3.4	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.8 0.9	0.0	-0.4	0.9	-0.1	-0.6	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	3.1 -1.3	0.6	-0.4	0.3	-0.8	-1.6	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.6 0.2	0.1	0.0	0.3	-0.1	0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.4 0.0	-0.1	-0.2	0.2	0.2	0.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Aug-2022 17:26:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-013
Misc. Info.: IC STD1
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:25 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:33:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.892	0.006	98	10833	0.2000	0.1893	
5 Chloromethane	50	2.093	2.087	0.006	97	13270	0.2000	0.2056	
6 Vinyl chloride	62	2.209	2.202	0.007	97	12126	0.2000	0.1838	
7 Butadiene	39	2.215	2.215	0.000	92	17469	0.2000	0.2785	M
9 Bromomethane	94	2.538	2.526	0.012	90	9970	0.2000	0.1915	
10 Chloroethane	64	2.605	2.599	0.006	99	7546	0.2000	0.1918	
11 Dichlorofluoromethane	67	2.855	2.836	0.019	96	18929	0.2000	0.1968	
12 Trichlorofluoromethane	101	2.910	2.904	0.006	92	16549	0.2000	0.1825	
13 Ethyl ether	59	3.135	3.123	0.012	85	8083	0.2001	0.1921	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.221	0.006	90	13369	0.2000	0.2087	
17 Acrolein	56	3.300	3.288	0.012	98	69888	10.0	11.4	
18 1,1-Dichloroethene	96	3.428	3.416	0.012	97	9511	0.2000	0.2003	
20 Acetone	43	3.489	3.458	0.031	72	18527	2.00	2.74	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.464	0.000	86	9199	0.2000	0.1987	
21 Iodomethane	142	3.623	3.605	0.018	98	18105	0.2000	0.2014	
22 Ethyl bromide	108	3.635	3.629	0.006	94	8307	0.2000	0.1905	
24 Isopropyl alcohol	45	3.721	3.690	0.031	29	6073	4.00	4.98	
23 Carbon disulfide	76	3.714	3.702	0.012	98	21688	0.2000	0.1872	M
25 Methyl acetate	43	3.879	3.855	0.024	27	5494	0.2000	0.2624	M
27 3-Chloro-1-propene	41	3.879	3.873	0.006	85	13371	0.2000	0.2086	
29 Methylene Chloride	84	4.068	4.056	0.012	88	10782	0.2000	0.2049	
* 30 t-Butyl alcohol-d10 (IS)	65	4.153	4.141	0.012	62	133180	50.0	50.0	
31 2-Methyl-2-propanol	59	4.306	4.245	0.061	28	10628	4.00	4.50	
32 Acrylonitrile	53	4.416	4.391	0.025	27	4319	0.5000	0.4822	
33 Methyl tert-butyl ether	73	4.452	4.446	0.006	91	28492	0.2000	0.2102	
34 trans-1,2-Dichloroethene	96	4.464	4.458	0.006	96	11005	0.2000	0.1984	
35 Hexane	57	4.885	4.885	0.000	89	12394	0.2000	0.2047	
37 1,1-Dichloroethane	63	5.135	5.123	0.012	41	17921	0.2000	0.1989	M
38 Isopropyl ether	45	5.190	5.184	0.006	92	29808	0.2000	0.2000	
39 2-Chloro-1,3-butadiene	53	5.245	5.232	0.013	89	13953	0.2000	0.1946	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	96	31075	0.2000	0.2026	
41 2-Butanone (MEK)	43	5.946	5.933	0.013	99	29312	2.00	2.20	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	78	12099	0.2000	0.1996	
43 2,2-Dichloropropane	77	5.988	5.976	0.012	58	14359	0.2000	0.1970	
45 Propionitrile	54	6.055	6.025	0.030	96	12758	4.00	4.04	
S 47 1,2-Dichloroethene, Total	100				0			0.3980	
48 Methacrylonitrile	67	6.257	6.238	0.019	90	29393	2.00	2.07	
49 Chlorobromomethane	128	6.299	6.293	0.006	80	5663	0.2000	0.1950	
50 Tetrahydrofuran	71	6.324	6.299	0.025	73	4124	1.00	1.04	
51 Chloroform	83	6.452	6.452	0.000	92	18779	0.2000	0.1945	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.665	0.006	94	542956	10.0	9.92	
53 1,1,1-Trichloroethane	97	6.671	6.671	0.000	36	16235	0.2000	0.1927	
54 Cyclohexane	56	6.769	6.769	0.000	89	15495	0.2000	0.2023	
56 Carbon tetrachloride	117	6.885	6.884	0.001	83	13659	0.2000	0.1884	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	94	14746	0.2000	0.1970	
58 Isobutyl alcohol	41	7.104	7.073	0.031	89	8806	10.0	11.1	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.116	0.006	91	119857	10.0	10.3	
60 Benzene	78	7.153	7.153	0.000	95	44699	0.2000	0.2024	
61 1,2-Dichloroethane	62	7.232	7.220	0.012	97	13351	0.2000	0.2121	
63 Tert-amyl methyl ether	73	7.354	7.348	0.006	97	29301	0.2000	0.2016	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2204666	10.0	10.0	
65 n-Heptane	43	7.573	7.573	0.000	36	13386	0.2000	0.2115	
67 n-Butanol	56	7.994	7.970	0.024	96	9201	17.5	13.4	
68 Trichloroethene	95	8.049	8.043	0.006	93	12445	0.2000	0.2019	
69 Methylcyclohexane	83	8.342	8.341	0.001	89	17837	0.2000	0.1944	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	89	10406	0.2000	0.1927	
71 2-ethoxy-2-methyl butane	87	8.396	8.390	0.006	92	16788	0.2000	0.1943	
72 Methyl methacrylate	69	8.482	8.463	0.019	84	5057	0.2000	0.1824	
73 Dibromomethane	93	8.488	8.482	0.006	92	5946	0.2000	0.2006	
74 1,4-Dioxane	88	8.561	8.512	0.049	1	225	10.0	9.89	M
76 Dichlorobromomethane	83	8.732	8.726	0.006	98	12244	0.2000	0.1887	M
77 2-Nitropropane	41	9.000	9.000	0.000	96	5944	1.00	0.9536	M
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	94	10774	0.2000	0.1842	
81 cis-1,3-Dichloropropene	75	9.274	9.280	-0.006	96	14460	0.2000	0.1787	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	71460	2.00	2.04	
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	93	2217229	10.0	9.94	
84 Toluene	92	9.677	9.671	0.007	98	29966	0.2000	0.1983	
85 trans-1,3-Dichloropropene	75	9.945	9.939	0.006	91	12020	0.2000	0.1786	
104 Ethyl methacrylate	69	10.006	10.006	0.000	85	11070	0.2000	0.1910	
S 105 1,3-Dichloropropene, Total	100				0			0.3573	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	89	9043	0.2000	0.2035	
107 Tetrachloroethene	166	10.231	10.231	0.000	96	15452	0.2000	0.2031	
108 1,3-Dichloropropane	76	10.305	10.311	-0.006	89	14400	0.2000	0.1975	
109 2-Hexanone	43	10.372	10.365	0.007	95	47526	2.00	1.86	
111 Chlorodibromomethane	129	10.524	10.524	0.000	88	7866	0.2000	0.1619	
112 Ethylene Dibromide	107	10.634	10.634	0.000	97	8523	0.2000	0.1948	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1741668	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	92	19124	0.2000	0.2259	
115 Chlorobenzene	112	11.097	11.097	0.000	96	36514	0.2000	0.1997	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	89	10235	0.2000	0.1744	
116 Ethylbenzene	91	11.189	11.189	0.001	98	58464	0.2000	0.1996	
S 118 Xylenes, Total	106				0			0.5796	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	45066	0.4000	0.3829	
120 o-Xylene	106	11.634	11.634	0.000	95	22948	0.2000	0.1968	
121 Styrene	104	11.652	11.652	0.000	94	36813	0.2000	0.1864	
122 Bromoform	173	11.810	11.804	0.006	95	4074	0.2000	0.1490	
123 Isopropylbenzene	105	11.938	11.938	0.000	95	57659	0.2000	0.1934	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	827194	10.0	9.96	
127 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	11082	0.2000	0.2008	
128 Bromobenzene	156	12.195	12.194	0.000	90	15338	0.2000	0.1928	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	85	21891	2.00	1.70	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	3217	0.2000	0.2029	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	68475	0.2000	0.1970	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	15487	0.2000	0.2027	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	93	50554	0.2000	0.1942	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	15297	0.2000	0.1915	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	11728	0.2000	0.1955	
136 Pentachloroethane	167	12.676	12.676	0.000	73	6521	0.2000	0.1519	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	50876	0.2000	0.1897	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	62431	0.2000	0.1912	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	97	31913	0.2000	0.1943	
140 4-Isopropyltoluene	119	12.914	12.920	-0.006	97	57121	0.2000	0.1919	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	94	1033318	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	95	33904	0.2000	0.1971	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	97	24019	0.2000	0.1951	
144 Benzyl chloride	126	13.060	13.060	0.000	98	2414	0.2000	0.2780	
145 p-Diethylbenzene	119	13.121	13.121	0.000	91	32778	0.2000	0.1850	
146 n-Butylbenzene	92	13.213	13.206	0.007	97	28644	0.2000	0.1970	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	30160	0.2000	0.1957	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	84	1359	0.2000	0.1672	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	25616	0.2000	0.1934	
151 1,2,4-Trichlorobenzene	180	14.334	14.328	0.006	93	23162	0.2000	0.1865	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	11127	0.2000	0.1891	
153 Naphthalene	128	14.511	14.511	0.000	97	39062	0.2000	0.1859	
154 1,2,3-Trichlorobenzene	180	14.657	14.651	0.006	96	20869	0.2000	0.1902	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	92	21856	0.2000	0.1885	
166 Pentane	43	2.922	2.916	0.006	90	10860	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

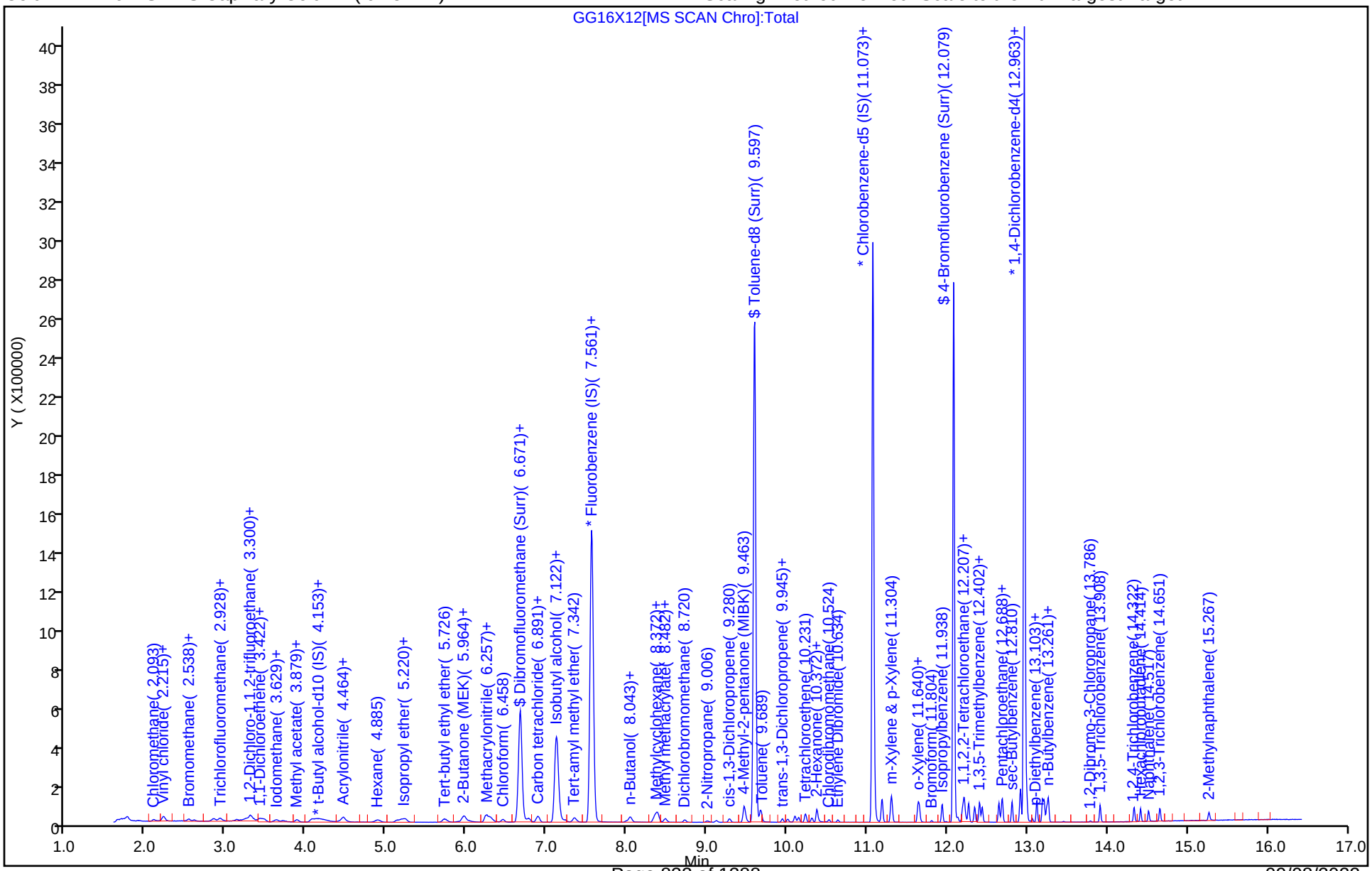
Report Date: 30-Aug-2022 10:48:25 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D

Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std1			Worklist Smp#:	13
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

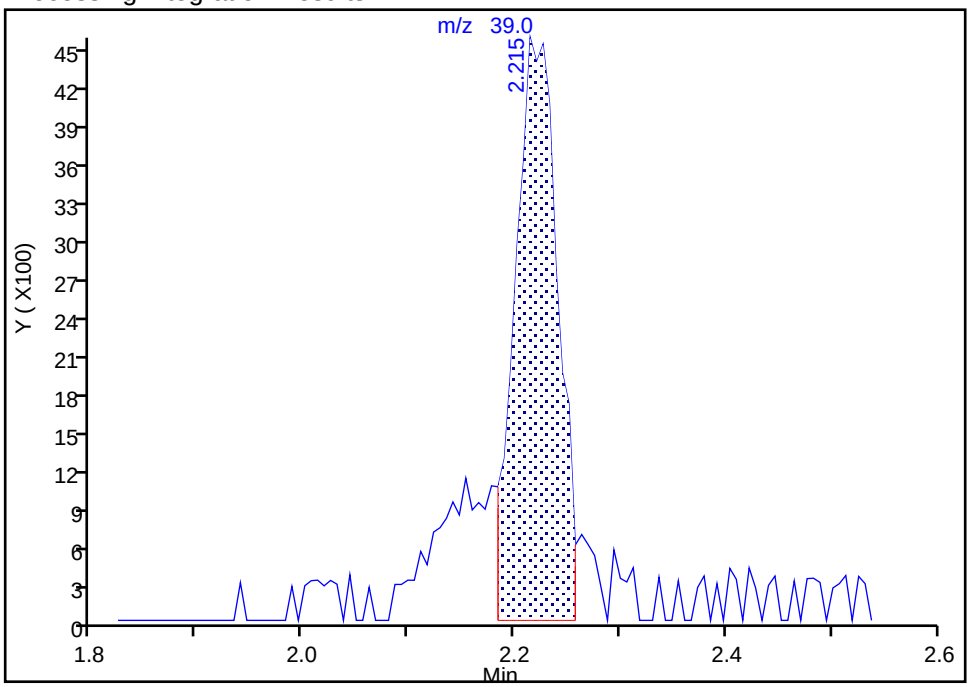
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

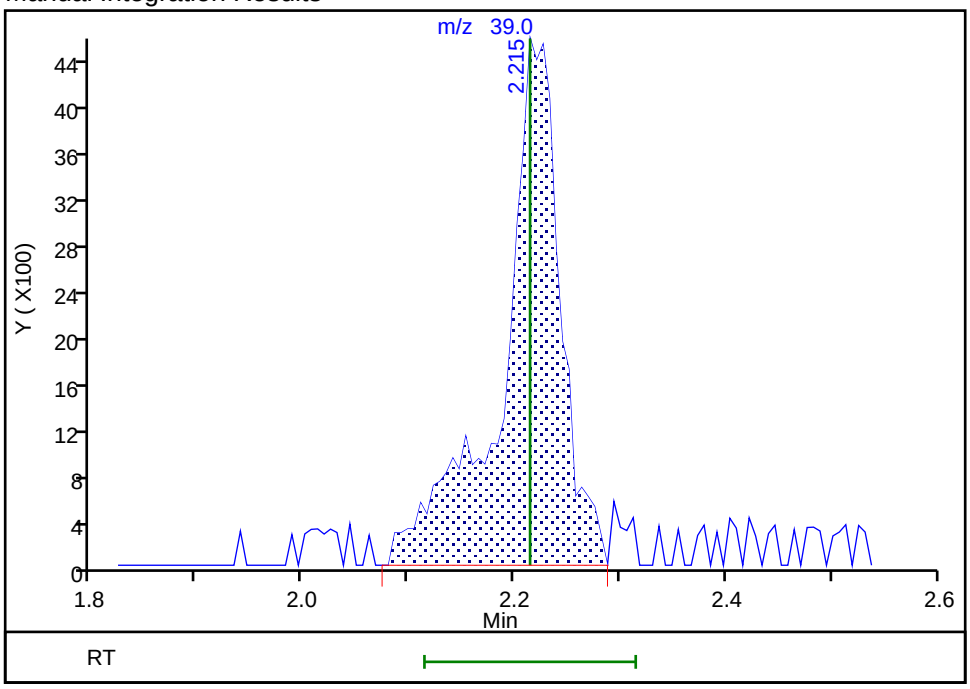
Processing Integration Results

RT: 2.21
Area: 12773
Amount: 0.218355
Amount Units: ug/l



Manual Integration Results

RT: 2.21
Area: 17469
Amount: 0.278490
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:31:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

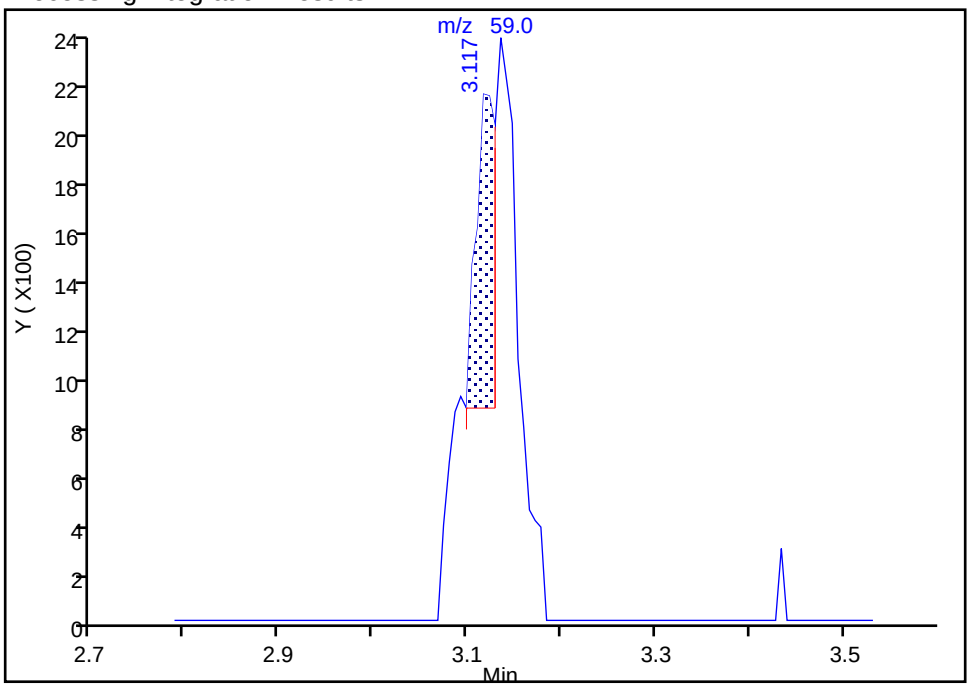
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Ethyl ether, CAS: 60-29-7

Signal: 1

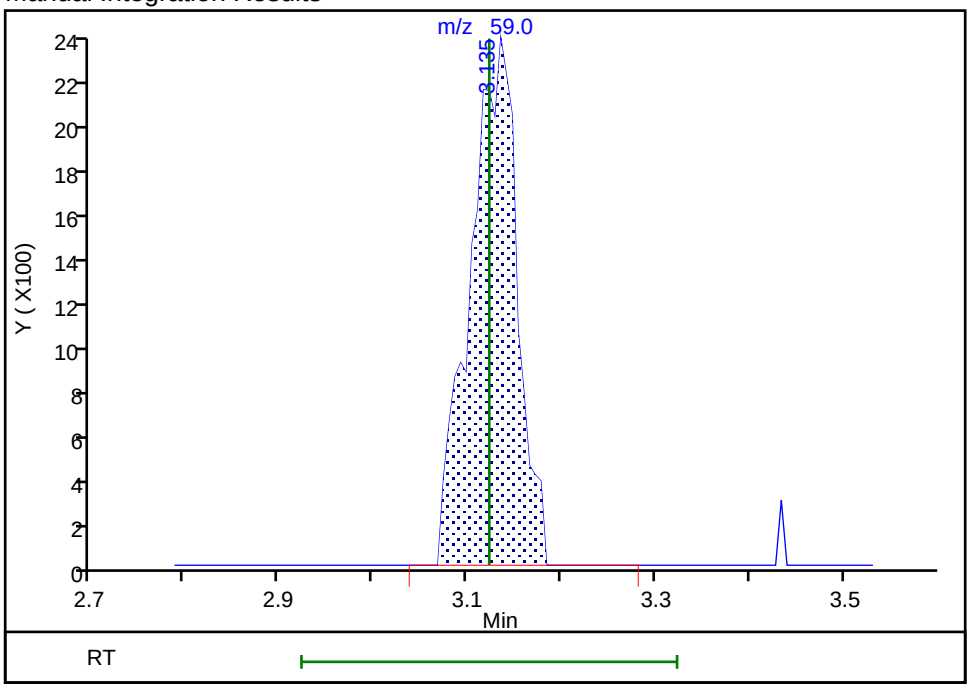
Processing Integration Results

RT: 3.12
Area: 1789
Amount: 0.127516
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 8083
Amount: 0.192054
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:31:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

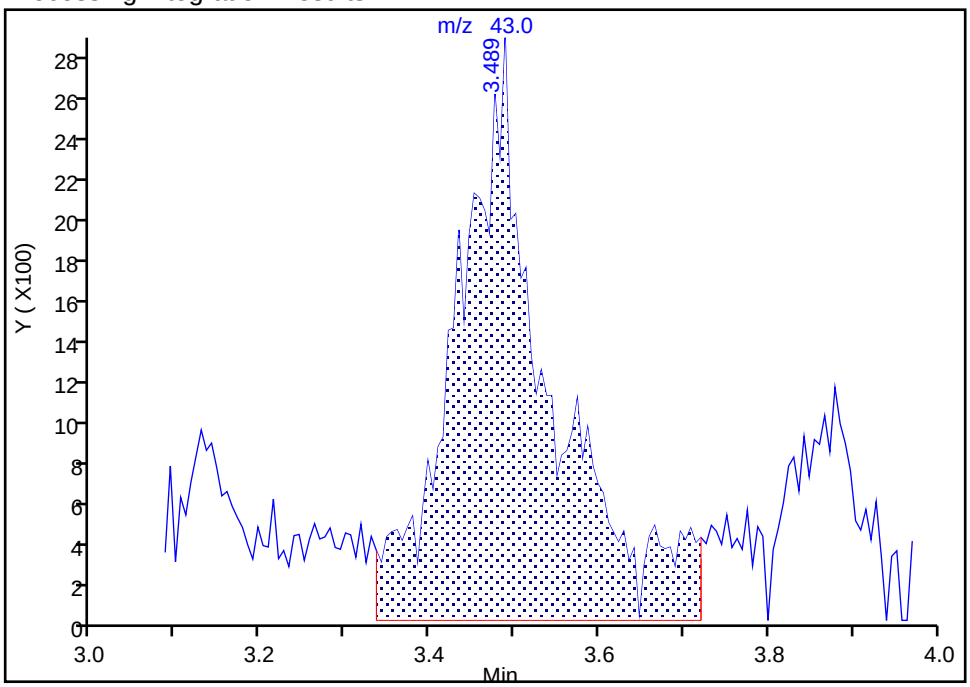
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

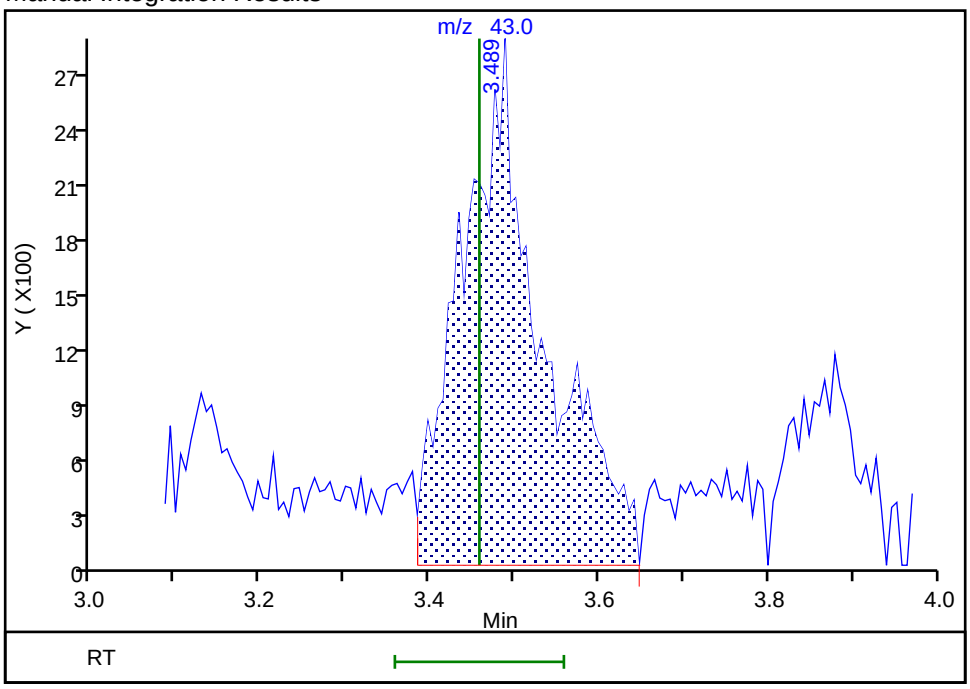
Processing Integration Results

RT: 3.49
Area: 21335
Amount: 3.130359
Amount Units: ug/l



Manual Integration Results

RT: 3.49
Area: 18527
Amount: 2.743915
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:31:46
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

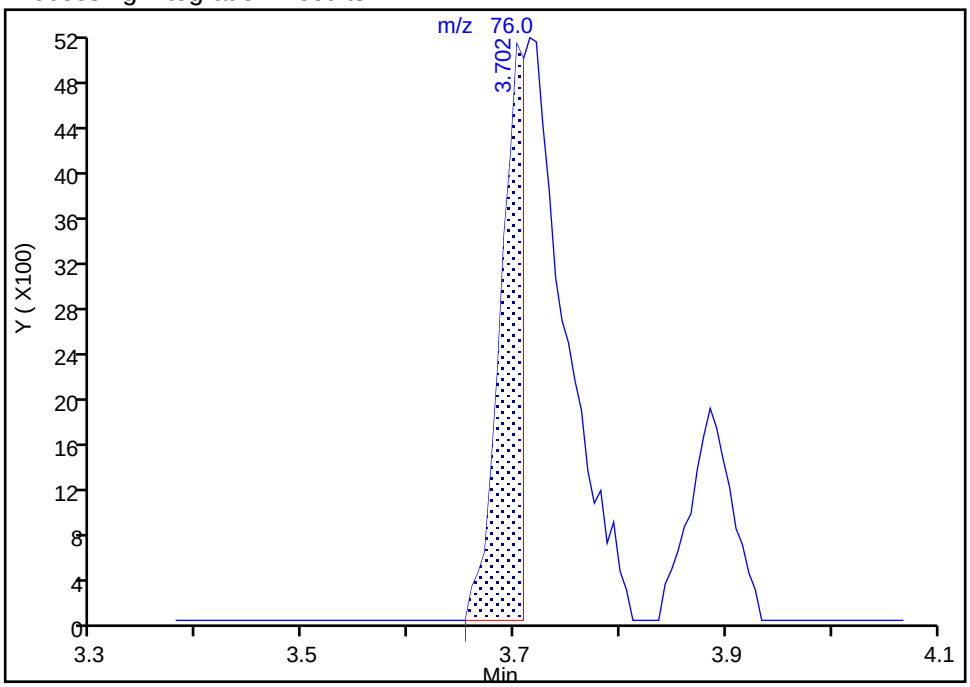
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

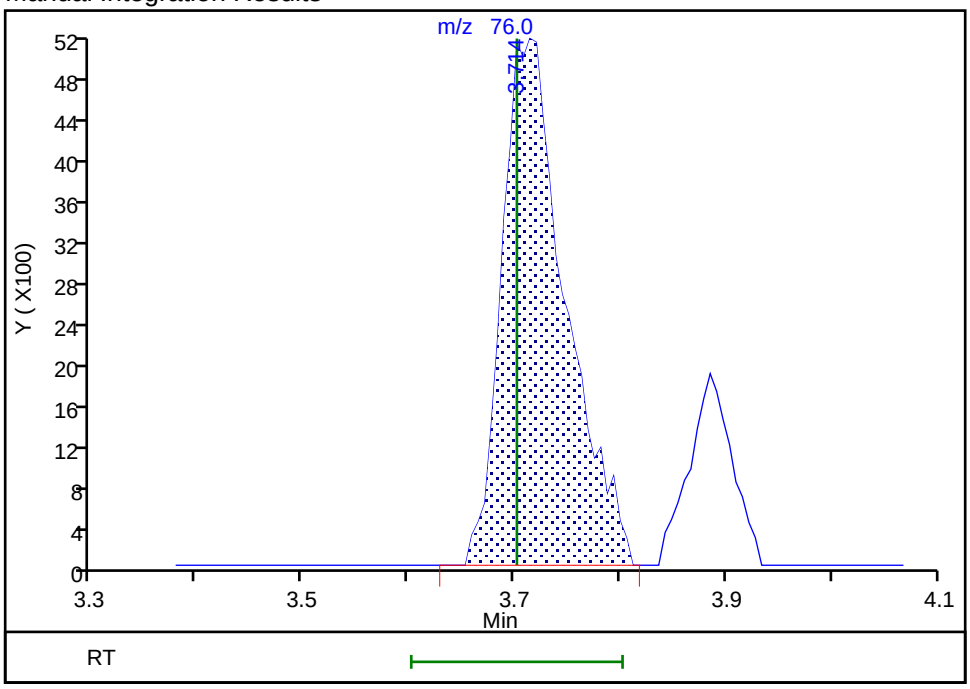
Processing Integration Results

RT: 3.70
Area: 8291
Amount: 0.190775
Amount Units: ug/l



Manual Integration Results

RT: 3.71
Area: 21688
Amount: 0.187211
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:31:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

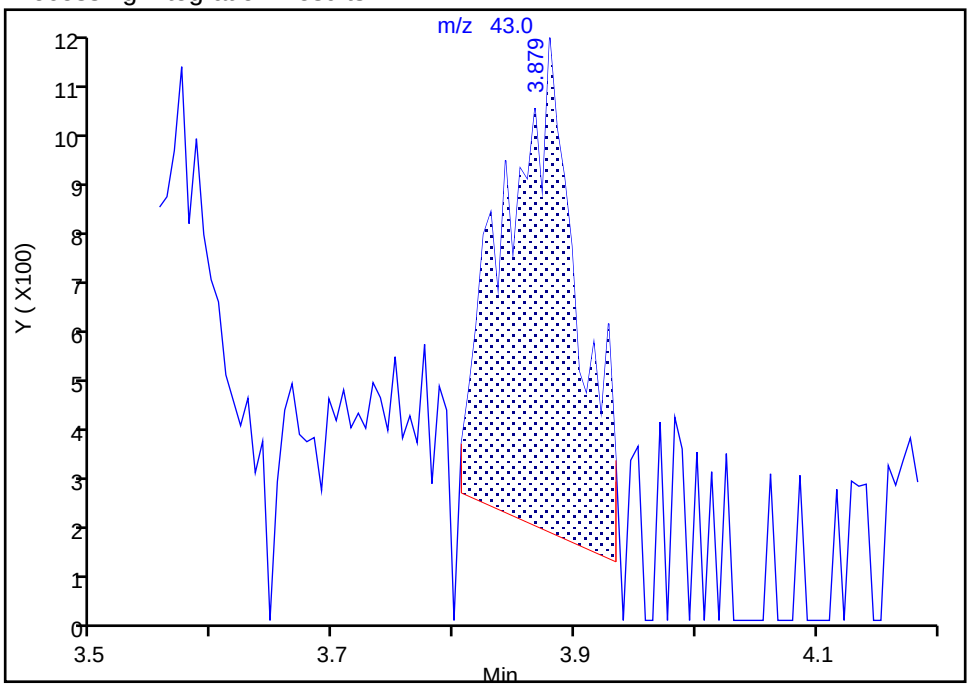
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

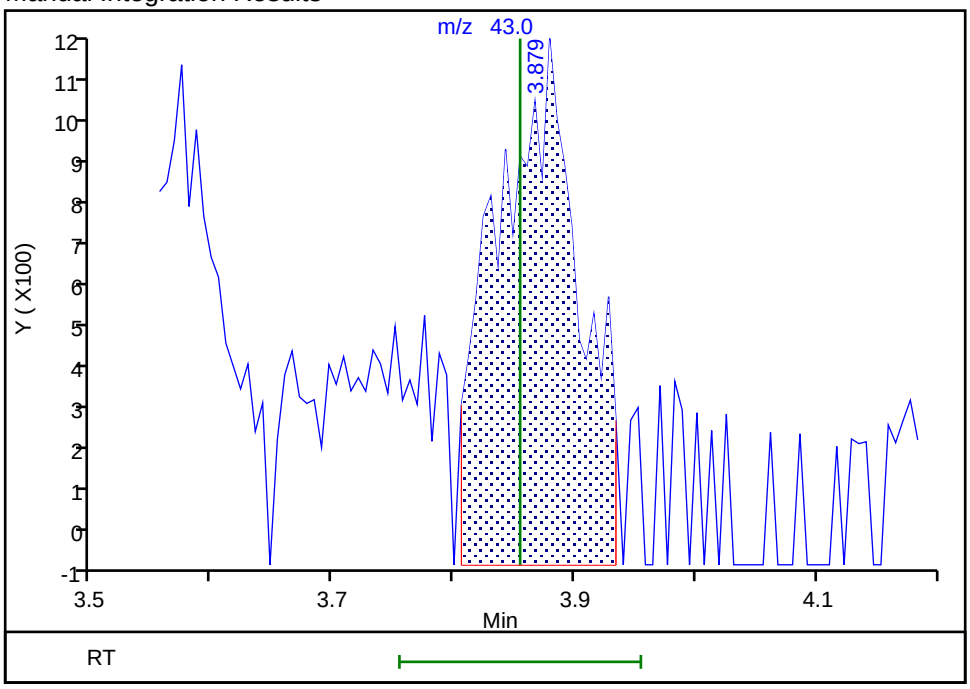
Processing Integration Results

RT: 3.88
Area: 4042
Amount: 0.202587
Amount Units: ug/l



Manual Integration Results

RT: 3.88
Area: 5494
Amount: 0.262389
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:06

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

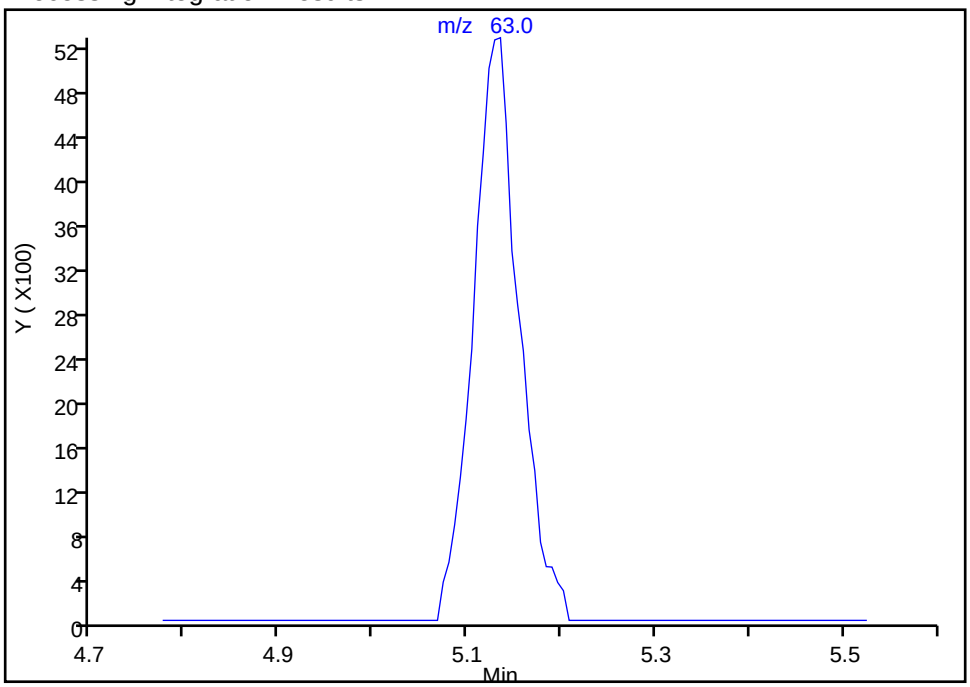
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

37 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

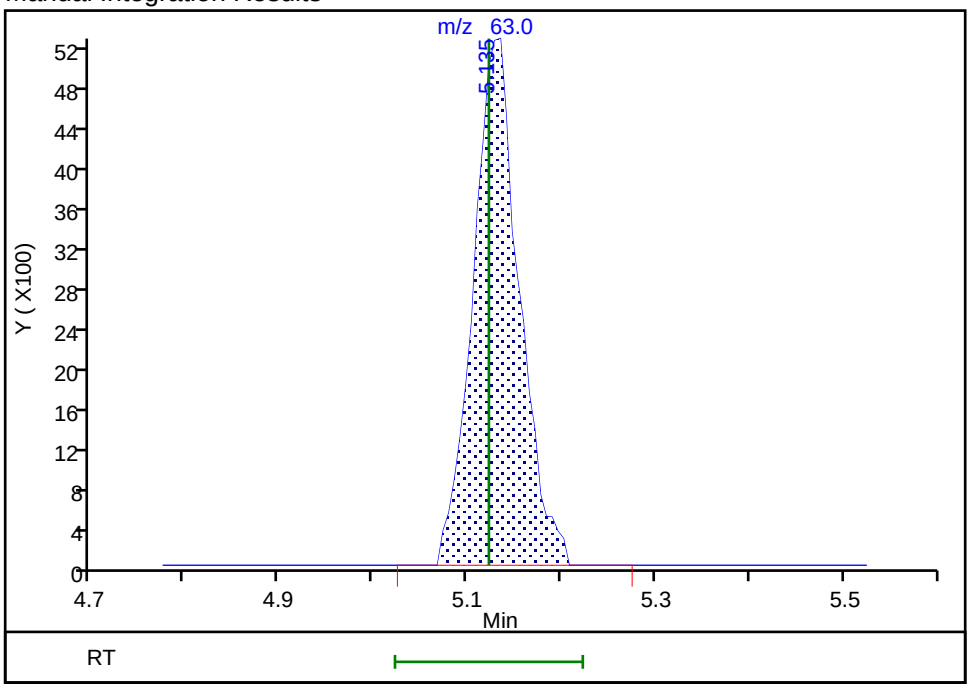
Not Detected
Expected RT: 5.12

Processing Integration Results



Manual Integration Results

RT: 5.13
Area: 17921
Amount: 0.198875
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

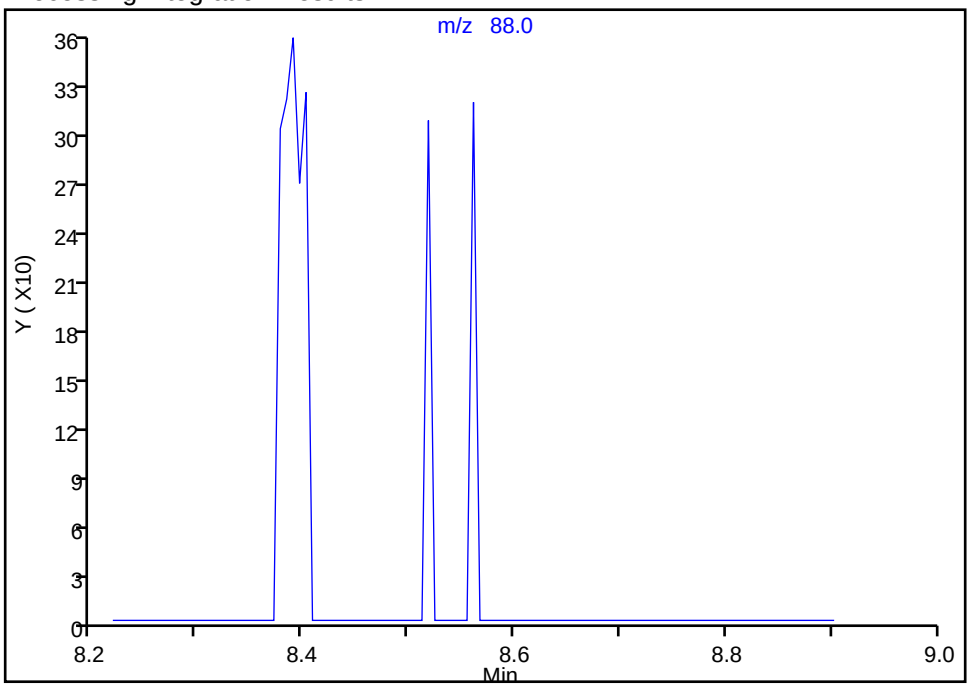
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

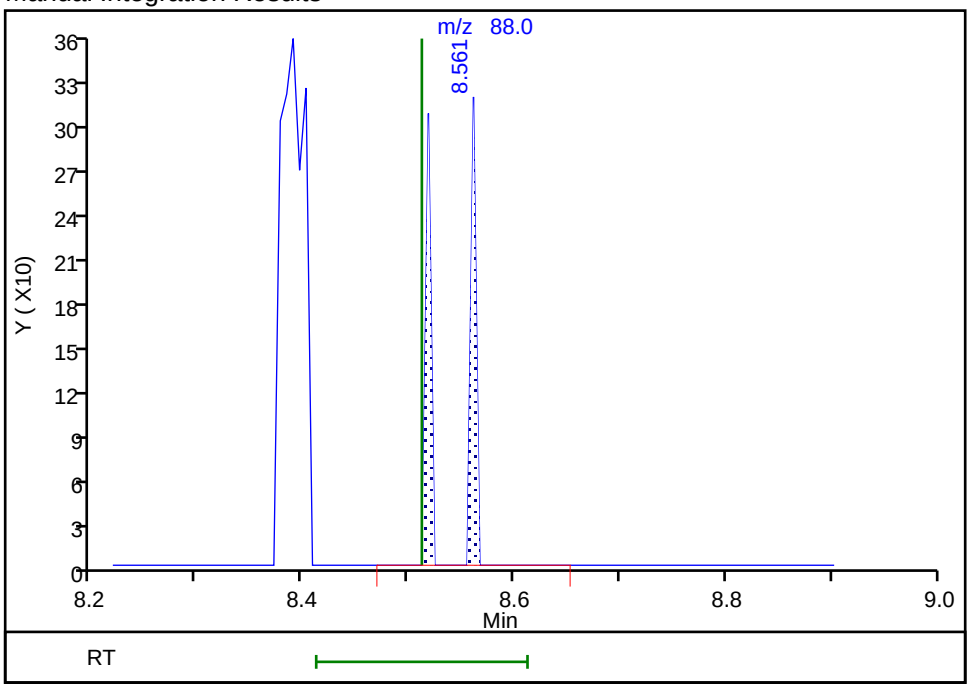
Not Detected
Expected RT: 8.51

Processing Integration Results



Manual Integration Results

RT: 8.56
Area: 225
Amount: 9.888496
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

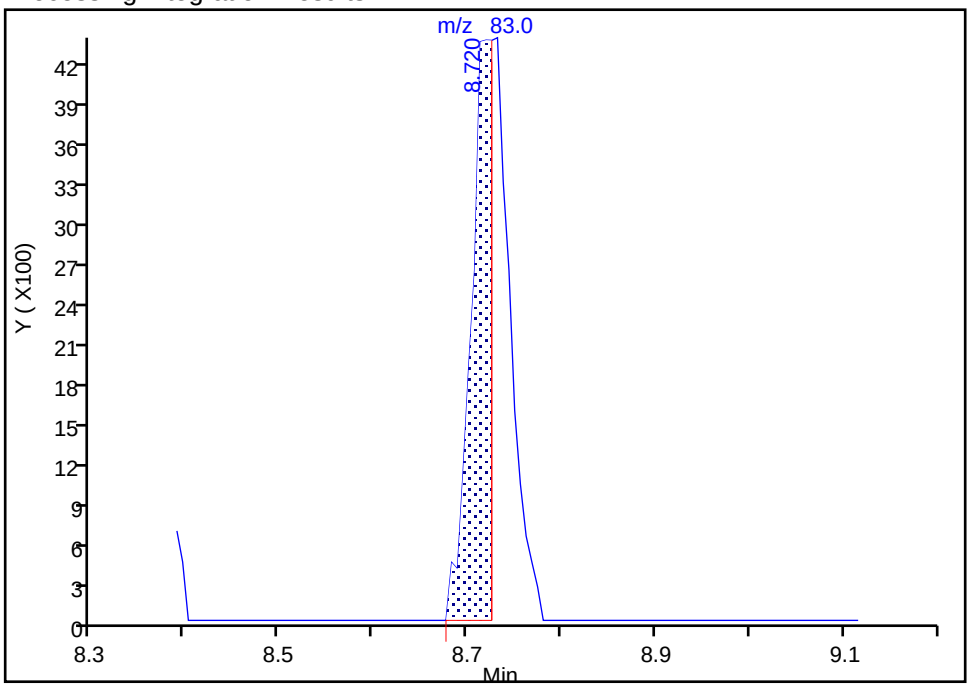
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

76 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

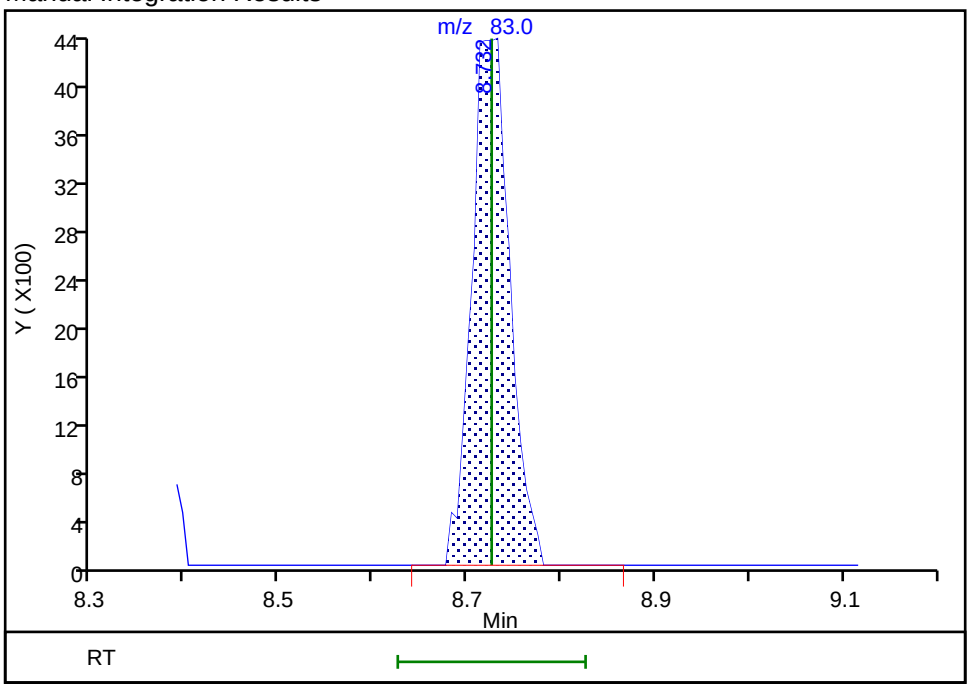
Processing Integration Results

RT: 8.72
Area: 7087
Amount: 0.115806
Amount Units: ug/l



Manual Integration Results

RT: 8.73
Area: 12244
Amount: 0.188715
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

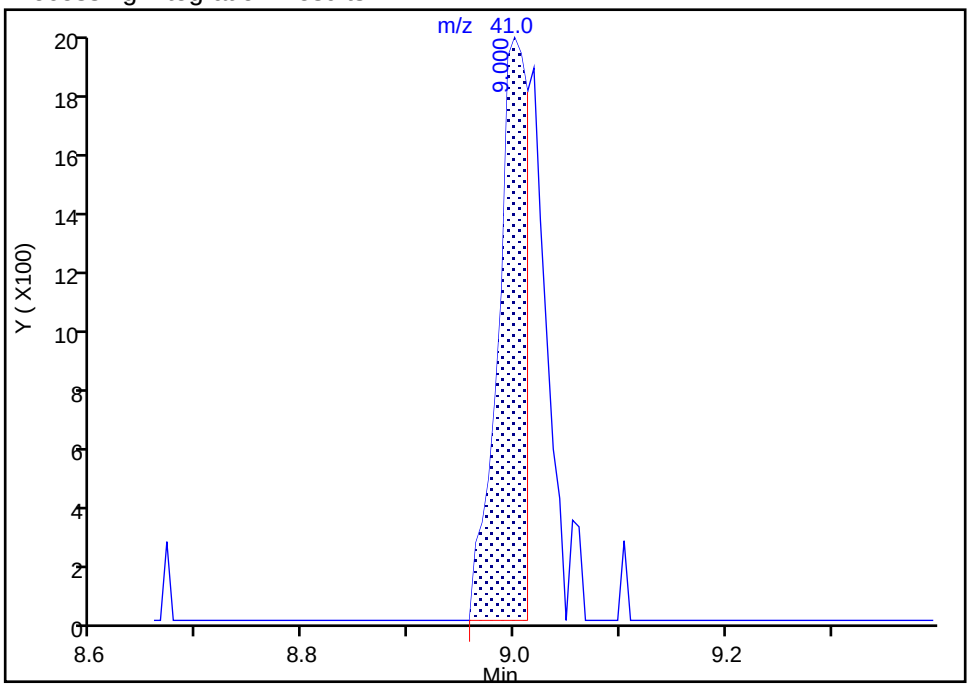
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

77 2-Nitropropane, CAS: 79-46-9

Signal: 1

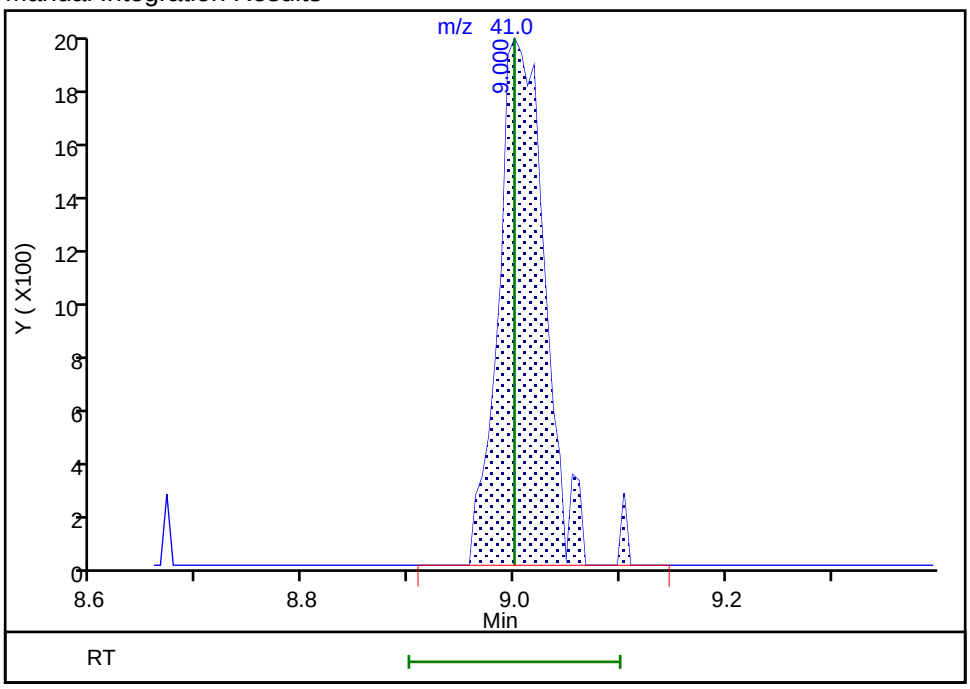
Processing Integration Results

RT: 9.00
Area: 3764
Amount: 1.019331
Amount Units: ug/l



Manual Integration Results

RT: 9.00
Area: 5944
Amount: 0.953626
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 16-Aug-2022 17:48:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-014
Misc. Info.: IC STD2
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:30 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:35:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.910	1.892	0.018	97	29864	0.5000	0.5161	
5 Chloromethane	50	2.093	2.087	0.006	99	35763	0.5000	0.5479	
6 Vinyl chloride	62	2.209	2.202	0.007	97	34951	0.5000	0.5239	
7 Butadiene	39	2.221	2.215	0.006	91	33291	0.5000	0.5249	M
9 Bromomethane	94	2.538	2.526	0.012	91	27671	0.5000	0.5257	
10 Chloroethane	64	2.611	2.599	0.012	98	20330	0.5000	0.5111	
11 Dichlorofluoromethane	67	2.843	2.836	0.007	95	50922	0.5000	0.5236	
12 Trichlorofluoromethane	101	2.916	2.904	0.012	71	48579	0.5000	0.5297	
13 Ethyl ether	59	3.135	3.123	0.012	88	22237	0.5001	0.5225	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.221	0.006	89	34418	0.5000	0.5313	
17 Acrolein	56	3.306	3.288	0.018	99	151628	25.0	25.5	
18 1,1-Dichloroethene	96	3.428	3.416	0.012	97	23932	0.5000	0.4984	
20 Acetone	43	3.477	3.458	0.019	89	33136	5.00	5.08	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.477	3.464	0.013	91	23226	0.5000	0.4962	
21 Iodomethane	142	3.611	3.605	0.006	99	46041	0.5000	0.5064	
22 Ethyl bromide	108	3.635	3.629	0.006	98	23129	0.4999	0.5246	
24 Isopropyl alcohol	45	3.714	3.690	0.024	27	12266	10.0	9.96	
23 Carbon disulfide	76	3.714	3.702	0.012	99	54155	0.5000	0.4623	
25 Methyl acetate	43	3.873	3.855	0.018	24	12070	0.5000	0.5968	M
27 3-Chloro-1-propene	41	3.885	3.873	0.012	88	32910	0.5000	0.5079	
29 Methylene Chloride	84	4.062	4.056	0.006	94	26736	0.5000	0.5025	
* 30 t-Butyl alcohol-d10 (IS)	65	4.141	4.141	0.000	63	128635	50.0	50.0	
31 2-Methyl-2-propanol	59	4.257	4.245	0.012	95	26043	10.0	11.4	M
32 Acrylonitrile	53	4.428	4.391	0.037	98	10330	1.25	1.19	
33 Methyl tert-butyl ether	73	4.458	4.446	0.012	94	68201	0.5000	0.4977	
34 trans-1,2-Dichloroethene	96	4.464	4.458	0.006	96	28136	0.5000	0.5017	
35 Hexane	57	4.897	4.885	0.012	91	30635	0.5000	0.5005	
37 1,1-Dichloroethane	63	5.135	5.123	0.012	95	45372	0.5000	0.4980	
38 Isopropyl ether	45	5.190	5.184	0.006	93	75661	0.5000	0.5020	
39 2-Chloro-1,3-butadiene	53	5.245	5.232	0.013	91	35647	0.5000	0.4916	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	96	78529	0.5000	0.5064	
41 2-Butanone (MEK)	43	5.952	5.933	0.019	99	66177	5.00	5.14	
42 cis-1,2-Dichloroethene	96	5.976	5.964	0.012	80	30021	0.5000	0.4898	
43 2,2-Dichloropropane	77	5.988	5.976	0.012	74	35373	0.5000	0.4800	
45 Propionitrile	54	6.037	6.025	0.012	98	31618	10.0	10.4	M
S 47 1,2-Dichloroethene, Total	100				0			0.99	
48 Methacrylonitrile	67	6.244	6.238	0.006	90	68072	5.00	4.95	
49 Chlorobromomethane	128	6.299	6.293	0.006	89	14558	0.5000	0.4958	
50 Tetrahydrofuran	71	6.311	6.299	0.012	67	9877	2.50	2.58	
51 Chloroform	83	6.452	6.452	0.000	93	49500	0.5000	0.5070	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.665	0.006	94	553438	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.683	6.671	0.012	40	41961	0.5000	0.4926	
54 Cyclohexane	56	6.775	6.769	0.006	88	38165	0.5000	0.4927	
56 Carbon tetrachloride	117	6.885	6.884	0.001	82	34892	0.5000	0.4759	
57 1,1-Dichloropropene	75	6.897	6.891	0.006	96	37795	0.5000	0.4993	
58 Isobutyl alcohol	41	7.092	7.073	0.019	96	19769	25.0	24.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.116	0.006	79	118255	10.0	10.1	
60 Benzene	78	7.153	7.153	0.000	92	111956	0.5000	0.5015	
61 1,2-Dichloroethane	62	7.226	7.220	0.006	97	33333	0.5000	0.5237	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	98	73806	0.5000	0.5021	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2229222	10.0	10.0	
65 n-Heptane	43	7.580	7.573	0.007	37	32359	0.5000	0.5055	
67 n-Butanol	56	7.988	7.970	0.018	88	28924	43.8	43.5	
68 Trichloroethene	95	8.043	8.043	0.000	97	30922	0.5000	0.4962	
69 Methylcyclohexane	83	8.354	8.341	0.013	89	44548	0.5000	0.4802	
70 1,2-Dichloropropane	63	8.384	8.372	0.012	76	27694	0.5000	0.5073	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	94	43310	0.5000	0.4956	
72 Methyl methacrylate	69	8.470	8.463	0.007	82	13080	0.5000	0.4885	
73 Dibromomethane	93	8.488	8.482	0.006	91	14481	0.5000	0.4833	
74 1,4-Dioxane	88	8.518	8.512	0.006	1	2333	25.0	23.7	M
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	31086	0.5000	0.4738	
77 2-Nitropropane	41	9.000	9.000	0.000	96	13724	2.50	2.28	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	29690	0.5000	0.5021	
81 cis-1,3-Dichloropropene	75	9.286	9.280	0.006	96	38315	0.5000	0.4682	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	168921	5.00	4.98	
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	93	2250850	10.0	10.0	
84 Toluene	92	9.677	9.671	0.007	98	75624	0.5000	0.4967	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	30039	0.5000	0.4429	
104 Ethyl methacrylate	69	10.006	10.006	0.000	87	26673	0.5000	0.4566	
S 105 1,3-Dichloropropene, Total	100				0			0.9111	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	89	22386	0.5000	0.4999	
107 Tetrachloroethene	166	10.231	10.231	0.000	98	37991	0.5000	0.4954	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	90	36673	0.5000	0.4992	
109 2-Hexanone	43	10.372	10.365	0.007	96	122181	5.00	4.94	
111 Chlorodibromomethane	129	10.524	10.524	0.000	88	21881	0.5000	0.4468	
112 Ethylene Dibromide	107	10.634	10.634	0.000	100	21212	0.5000	0.4812	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1755239	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	92	42721	0.5000	0.5006	
115 Chlorobenzene	112	11.097	11.097	0.000	96	93034	0.5000	0.5048	
117 1,1,1,2-Tetrachloroethane	131	11.182	11.182	0.000	92	28190	0.5000	0.4765	
116 Ethylbenzene	91	11.189	11.189	0.001	98	146301	0.5000	0.4957	
S 118 Xylenes, Total	106				0			1.47	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	115958	1.00	0.9775	
120 o-Xylene	106	11.634	11.634	0.000	95	57392	0.5000	0.4883	
121 Styrene	104	11.652	11.652	0.000	95	94941	0.5000	0.4769	
122 Bromoform	173	11.810	11.804	0.006	97	10522	0.5000	0.3817	
123 Isopropylbenzene	105	11.938	11.938	0.000	95	148324	0.5000	0.4937	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	835927	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.188	-0.006	95	26537	0.5000	0.4744	
128 Bromobenzene	156	12.194	12.194	0.000	91	39314	0.5000	0.4877	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	88	56733	5.00	4.55	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	7781	0.5000	0.4843	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	173695	0.5000	0.4932	
132 2-Chlorotoluene	126	12.341	12.341	0.000	98	38278	0.5000	0.4942	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	130441	0.5000	0.4944	
134 4-Chlorotoluene	126	12.438	12.438	0.000	97	39001	0.5000	0.4818	
135 tert-Butylbenzene	134	12.646	12.646	0.000	91	29851	0.5000	0.4910	
136 Pentachloroethane	167	12.676	12.676	0.000	78	19435	0.5000	0.4467	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	132706	0.5000	0.4883	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	161376	0.5000	0.4877	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	98	80921	0.5000	0.4861	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	144968	0.5000	0.4805	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1047319	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	83845	0.5000	0.4810	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	97	63120	0.5000	0.5058	
144 Benzyl chloride	126	13.060	13.060	0.000	98	6688	0.5000	0.4679	
145 p-Diethylbenzene	119	13.115	13.121	-0.006	91	86878	0.5000	0.4838	
146 n-Butylbenzene	92	13.206	13.206	0.000	97	70421	0.5000	0.4778	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	98	75705	0.5000	0.4846	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	86	3270	0.5000	0.3969	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	65196	0.5000	0.4858	
151 1,2,4-Trichlorobenzene	180	14.334	14.328	0.006	94	57005	0.5000	0.4529	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	95	29376	0.5000	0.4925	
153 Naphthalene	128	14.511	14.511	0.000	97	97004	0.5000	0.4554	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	97	51896	0.5000	0.4666	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	92	56001	0.5000	0.4334	
166 Pentane	43	2.928	2.916	0.012	95	34005	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

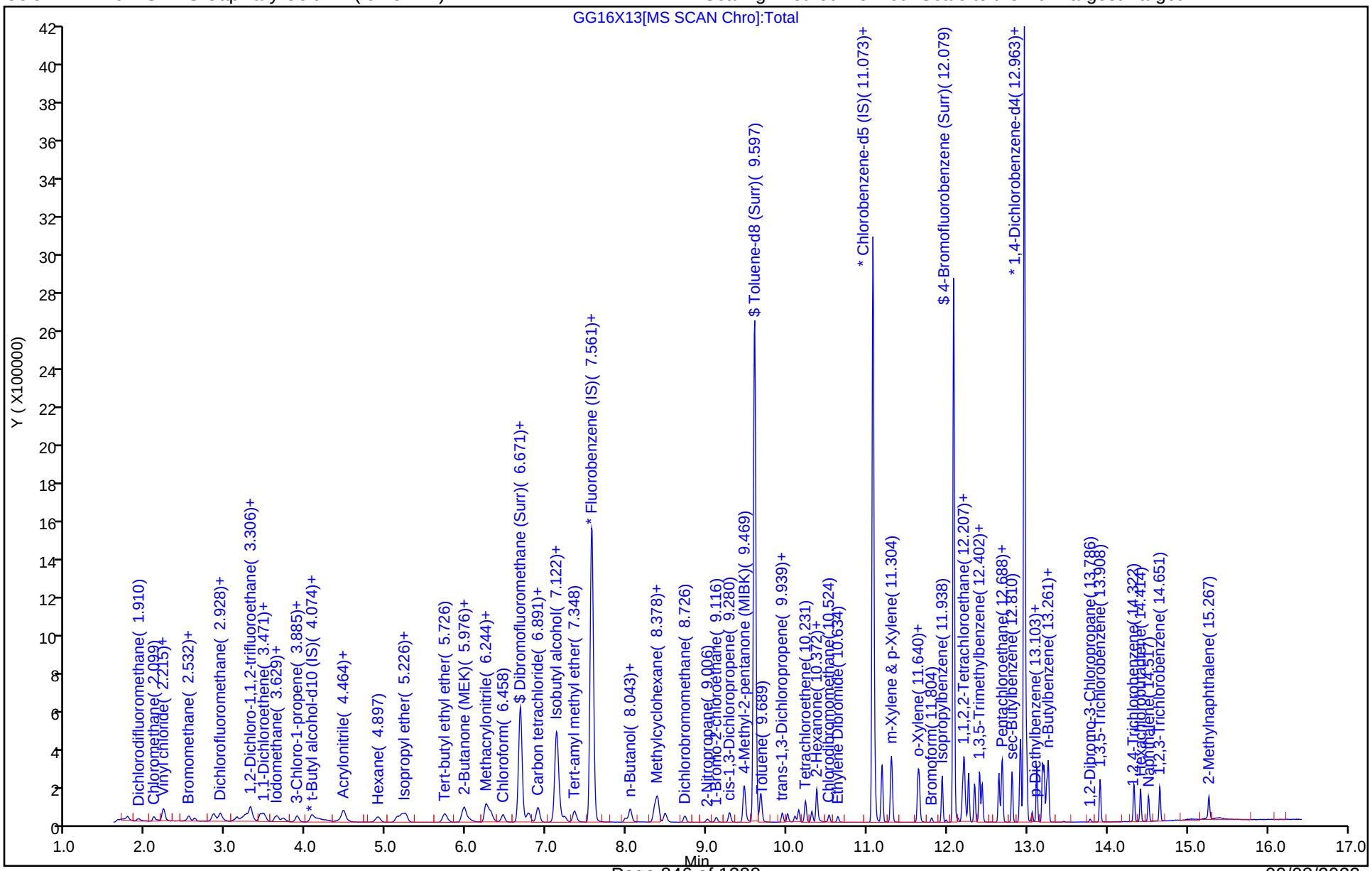
Report Date: 30-Aug-2022 10:48:31 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D

Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std2			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

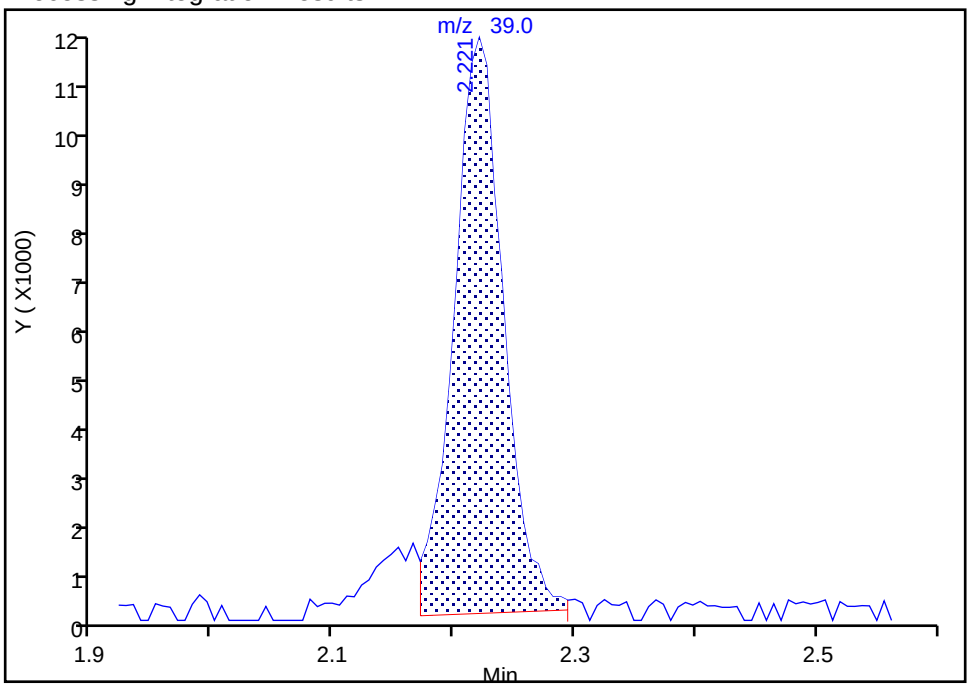
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D				
Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

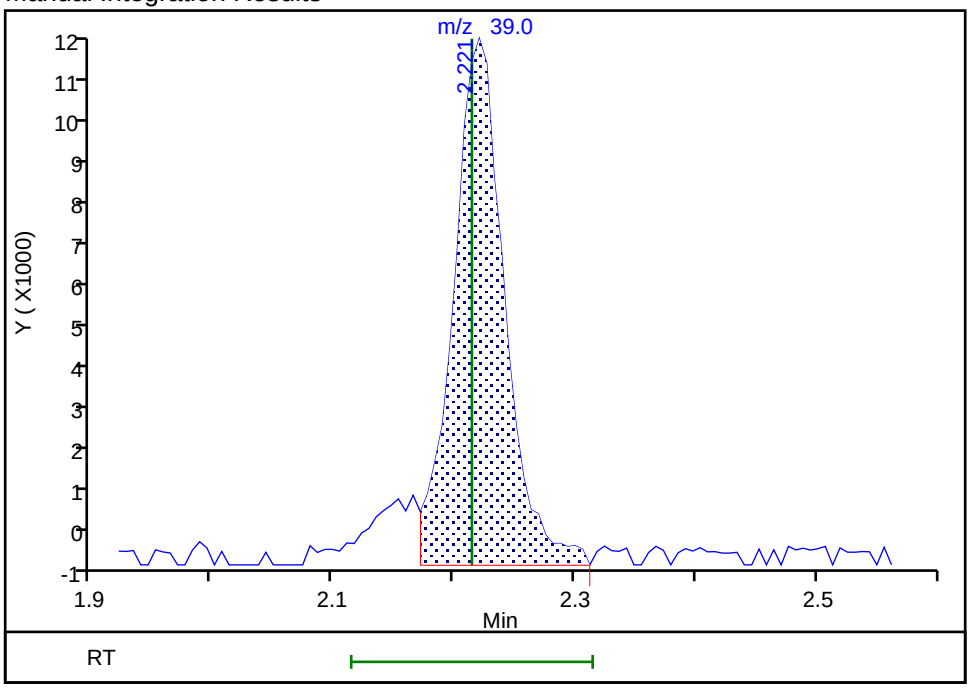
Processing Integration Results

RT: 2.22
Area: 31835
Amount: 0.509037
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 33291
Amount: 0.524877
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:33:43
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

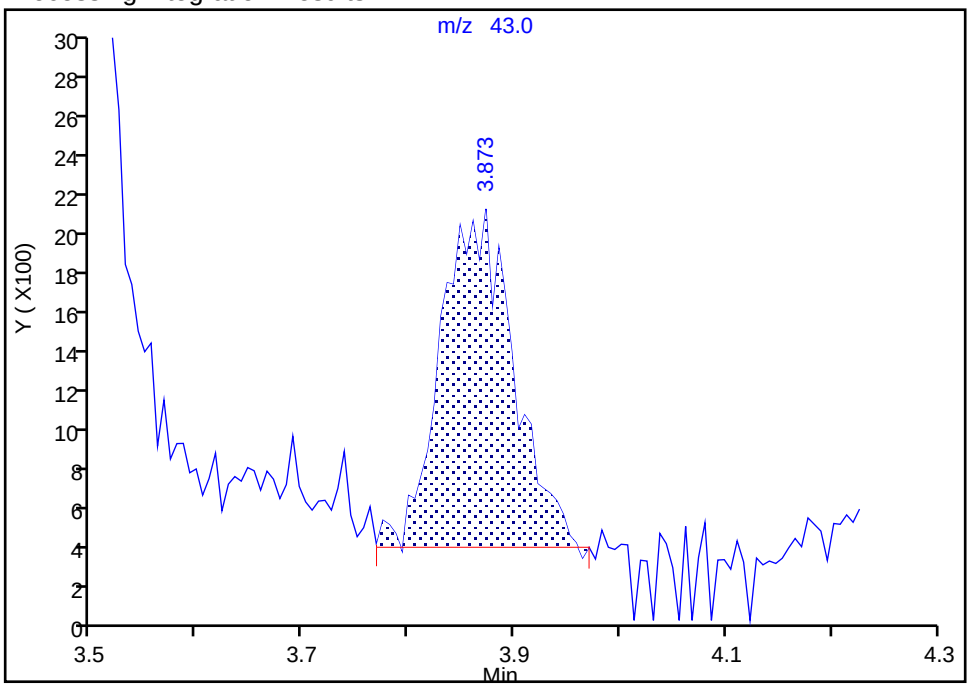
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D				
Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

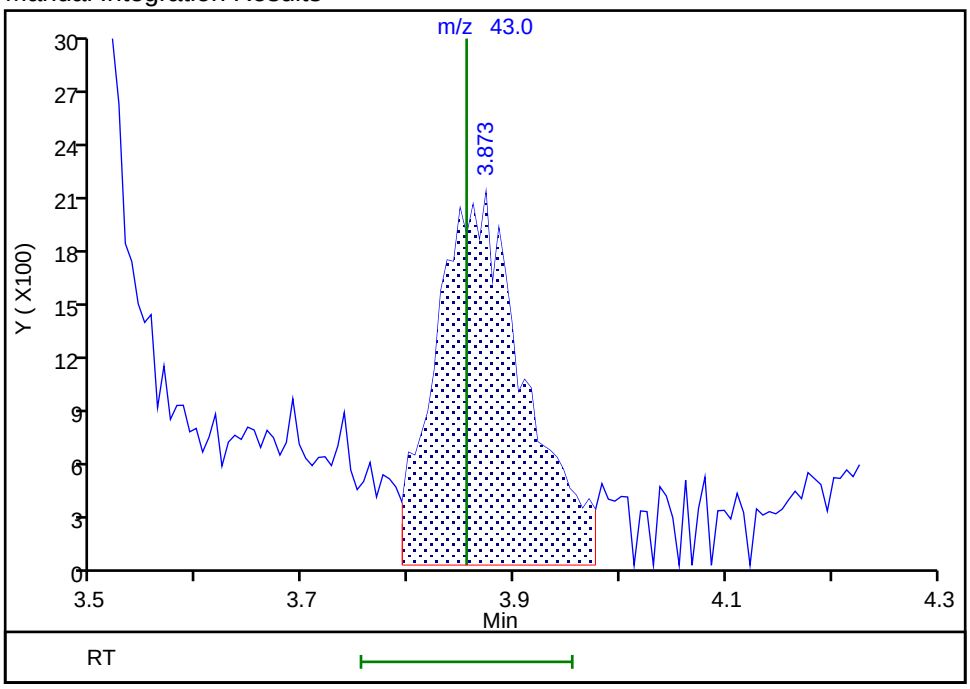
Processing Integration Results

RT: 3.87
Area: 8074
Amount: 0.398268
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 12070
Amount: 0.596822
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:34:36
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

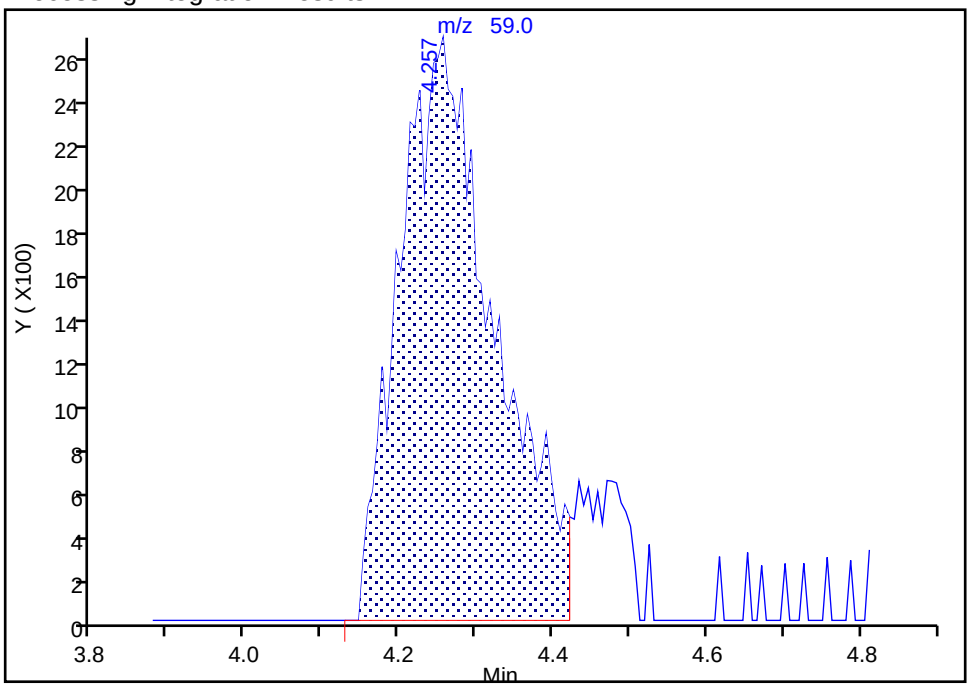
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D				
Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

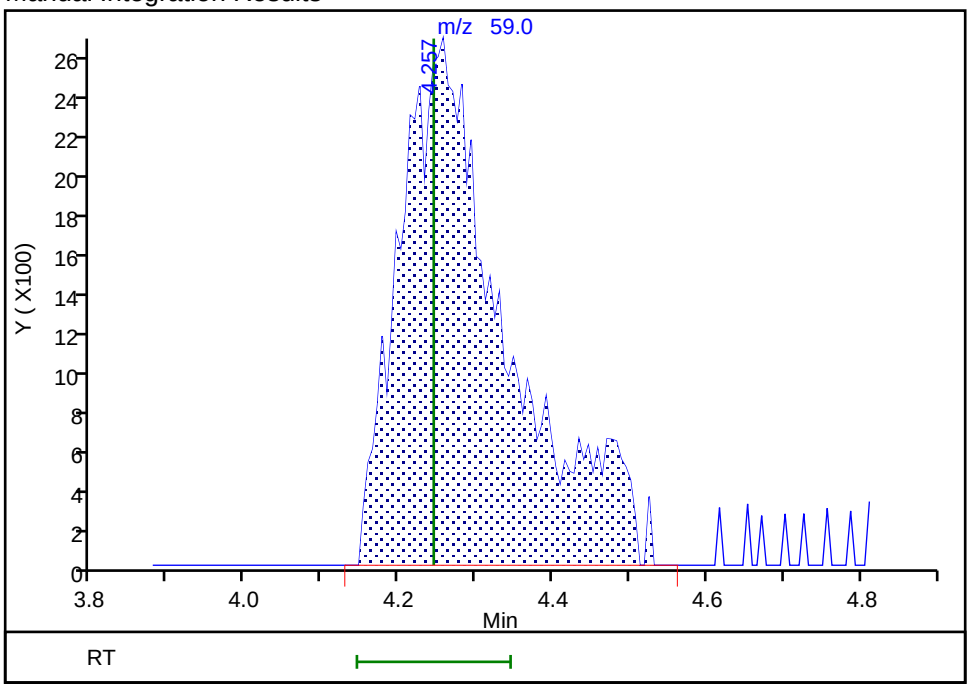
Processing Integration Results

RT: 4.26
Area: 23199
Amount: 10.086383
Amount Units: ug/l



Manual Integration Results

RT: 4.26
Area: 26043
Amount: 11.421802
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:34:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

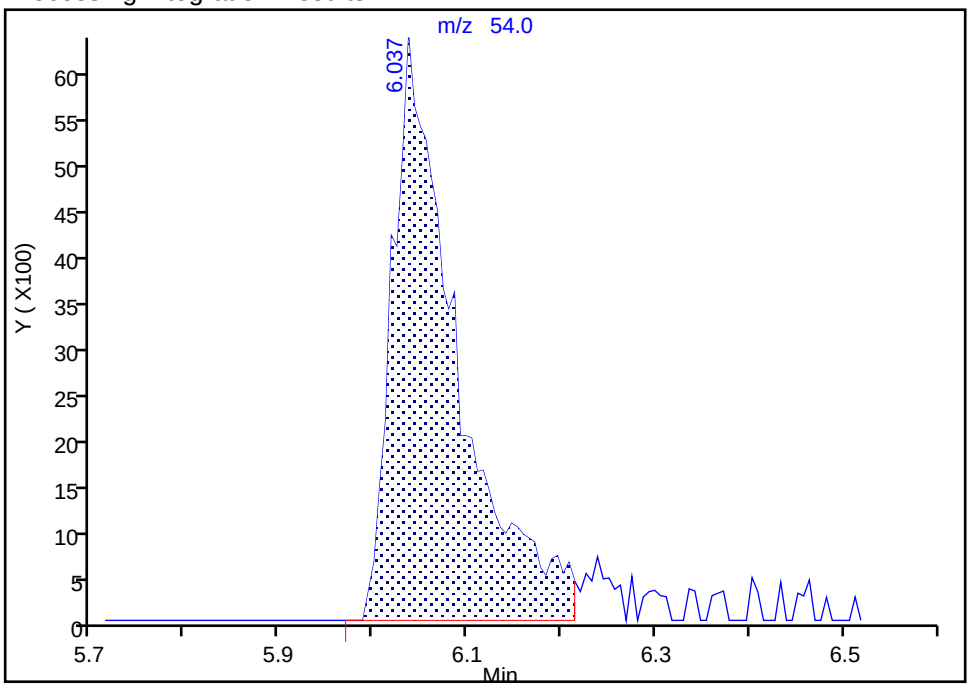
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D				
Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Propionitrile, CAS: 107-12-0

Signal: 1

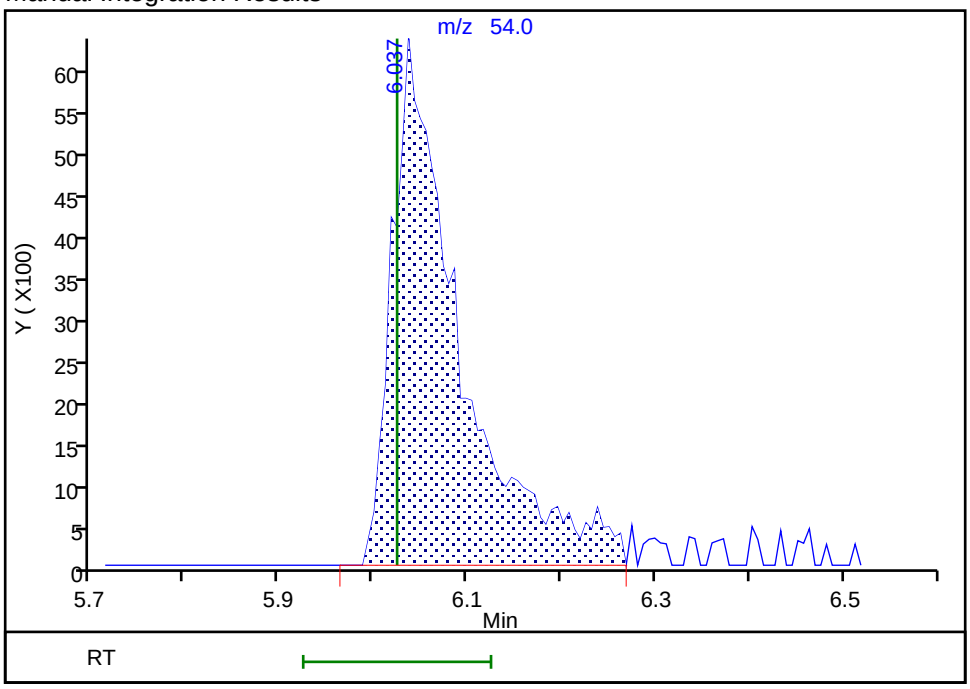
Processing Integration Results

RT: 6.04
Area: 30308
Amount: 9.713761
Amount Units: ug/l



Manual Integration Results

RT: 6.04
Area: 31618
Amount: 10.357229
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:34:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

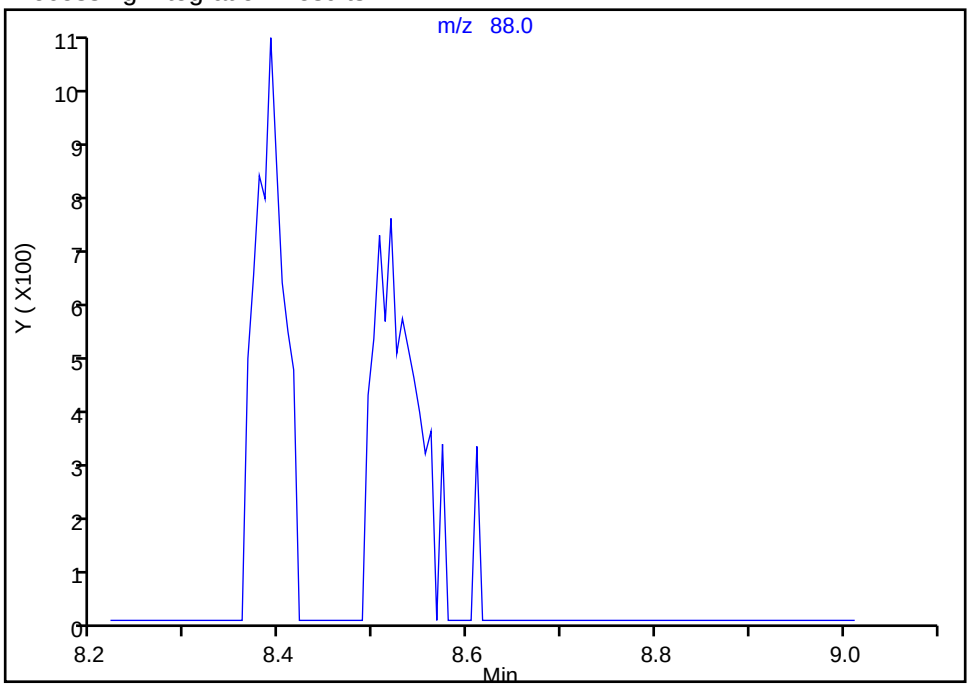
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D				
Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

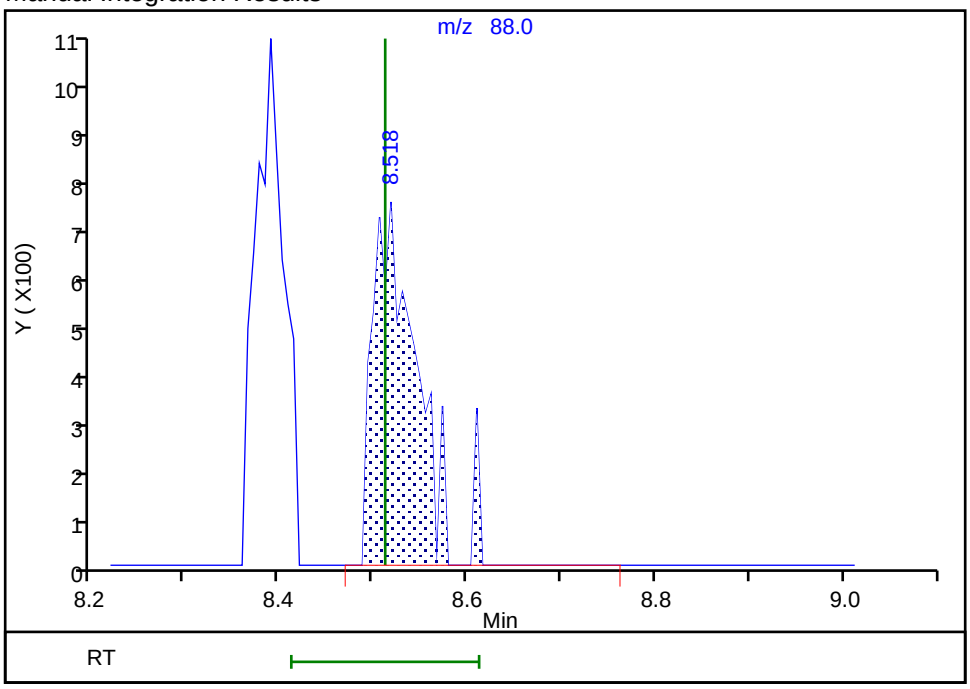
Not Detected
Expected RT: 8.51

Processing Integration Results



Manual Integration Results

RT: 8.52
Area: 2333
Amount: 23.738210
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:35:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Aug-2022 18:10:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-015
Misc. Info.: IC STD3
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:35 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:38:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.892	0.006	98	64970	1.00	1.12	
5 Chloromethane	50	2.099	2.087	0.012	99	71408	1.00	1.09	
6 Vinyl chloride	62	2.209	2.202	0.007	97	75827	1.00	1.14	
7 Butadiene	39	2.221	2.215	0.006	90	66066	1.00	1.04	M
9 Bromomethane	94	2.538	2.526	0.012	91	56777	1.00	1.08	
10 Chloroethane	64	2.611	2.599	0.012	99	43829	1.00	1.10	
11 Dichlorofluoromethane	67	2.843	2.836	0.007	97	107037	1.00	1.10	
12 Trichlorofluoromethane	101	2.916	2.904	0.012	95	99801	1.00	1.09	
13 Ethyl ether	59	3.135	3.123	0.012	90	44254	1.00	1.04	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.233	3.221	0.012	88	71956	1.00	1.11	
17 Acrolein	56	3.300	3.288	0.012	98	296541	50.0	46.9	
18 1,1-Dichloroethene	96	3.428	3.416	0.012	96	52396	1.00	1.09	
20 Acetone	43	3.471	3.458	0.013	87	67653	10.0	9.74	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.464	0.001	90	51784	1.00	1.11	
21 Iodomethane	142	3.617	3.605	0.012	98	95536	1.00	1.05	
22 Ethyl bromide	108	3.641	3.629	0.012	97	45609	1.00	1.03	
24 Isopropyl alcohol	45	3.678	3.690	-0.012	26	25166	20.0	20.4	M
23 Carbon disulfide	76	3.709	3.702	0.006	99	120809	1.00	1.03	
25 Methyl acetate	43	3.861	3.855	0.006	57	18773	1.00	0.8719	
27 3-Chloro-1-propene	41	3.891	3.873	0.018	89	68077	1.00	1.05	
29 Methylene Chloride	84	4.062	4.056	0.006	87	54805	1.00	1.03	
* 30 t-Butyl alcohol-d10 (IS)	65	4.123	4.141	-0.018	59	136943	50.0	50.0	
31 2-Methyl-2-propanol	59	4.251	4.245	0.006	99	47324	20.0	19.5	
32 Acrylonitrile	53	4.416	4.391	0.025	92	22478	2.50	2.44	
33 Methyl tert-butyl ether	73	4.458	4.446	0.012	93	140874	1.00	1.03	
34 trans-1,2-Dichloroethene	96	4.464	4.458	0.006	96	60166	1.00	1.07	
35 Hexane	57	4.891	4.885	0.006	91	67189	1.00	1.10	
37 1,1-Dichloroethane	63	5.135	5.123	0.012	96	96997	1.00	1.06	
38 Isopropyl ether	45	5.190	5.184	0.006	93	156342	1.00	1.04	
39 2-Chloro-1,3-butadiene	53	5.245	5.232	0.013	91	78331	1.00	1.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	97	158948	1.00	1.02	
41 2-Butanone (MEK)	43	5.946	5.933	0.013	99	137933	10.0	10.1	
42 cis-1,2-Dichloroethene	96	5.970	5.964	0.006	80	65758	1.00	1.07	
43 2,2-Dichloropropane	77	5.989	5.976	0.013	87	81208	1.00	1.10	
45 Propionitrile	54	6.037	6.025	0.012	98	64922	20.0	20.0	
S 47 1,2-Dichloroethene, Total	100				0			2.14	
48 Methacrylonitrile	67	6.245	6.238	0.007	91	140534	10.0	9.60	
49 Chlorobromomethane	128	6.299	6.293	0.006	86	29925	1.00	1.02	
50 Tetrahydrofuran	71	6.312	6.299	0.013	66	19791	5.00	4.86	
51 Chloroform	83	6.452	6.452	0.000	93	103813	1.00	1.06	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.665	0.006	94	551657	10.0	9.96	
53 1,1,1-Trichloroethane	97	6.677	6.671	0.006	42	91058	1.00	1.07	
54 Cyclohexane	56	6.769	6.769	0.000	88	83885	1.00	1.08	
56 Carbon tetrachloride	117	6.885	6.884	0.001	81	78504	1.00	1.07	
57 1,1-Dichloropropene	75	6.897	6.891	0.006	96	84366	1.00	1.11	
58 Isobutyl alcohol	41	7.092	7.073	0.019	88	39678	50.0	49.6	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.129	7.116	0.013	81	117134	10.0	9.96	
60 Benzene	78	7.153	7.153	0.000	95	237804	1.00	1.06	
61 1,2-Dichloroethane	62	7.226	7.220	0.006	98	65349	1.00	1.03	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	150323	1.00	1.02	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2229967	10.0	10.0	
65 n-Heptane	43	7.580	7.573	0.007	92	70226	1.00	1.10	
67 n-Butanol	56	7.976	7.970	0.006	90	61810	87.5	87.3	
68 Trichloroethene	95	8.043	8.043	0.000	95	67641	1.00	1.09	
69 Methylcyclohexane	83	8.348	8.341	0.007	90	101289	1.00	1.09	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	97	57142	1.00	1.05	
71 2-ethoxy-2-methyl butane	87	8.391	8.390	0.001	94	89269	1.00	1.02	
72 Methyl methacrylate	69	8.464	8.463	0.001	88	26397	1.00	0.9261	
73 Dibromomethane	93	8.488	8.482	0.006	92	31212	1.00	1.04	
74 1,4-Dioxane	88	8.519	8.512	0.007	74	8023	50.0	57.8	M
76 Dichlorobromomethane	83	8.726	8.726	0.000	98	66707	1.00	1.02	
77 2-Nitropropane	41	9.006	9.000	0.006	97	28229	5.00	4.40	
79 1-Bromo-2-chloroethane	63	9.122	9.116	0.006	98	60702	1.00	1.03	
81 cis-1,3-Dichloropropene	75	9.281	9.280	0.001	96	79430	1.00	0.9703	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	355253	10.0	9.84	
$ 83 Toluene-d8 (Surr)	98	9.598	9.591	0.007	93	2261224	10.0	10.0	
84 Toluene	92	9.671	9.671	0.001	99	166283	1.00	1.09	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	65556	1.00	0.9605	
104 Ethyl methacrylate	69	10.006	10.006	0.000	87	57347	1.00	0.9756	
S 105 1,3-Dichloropropene, Total	100				0			1.93	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	47367	1.00	1.05	
107 Tetrachloroethene	166	10.232	10.231	0.001	97	85370	1.00	1.11	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	89	77024	1.00	1.04	
109 2-Hexanone	43	10.372	10.365	0.007	96	259520	10.0	9.86	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	48615	1.00	0.9864	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	45733	1.00	1.03	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1766319	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	94	92947	1.00	1.08	
115 Chlorobenzene	112	11.097	11.097	0.000	97	204292	1.00	1.10	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	95	60398	1.00	1.01	
116 Ethylbenzene	91	11.189	11.189	0.001	98	319592	1.00	1.08	
S 118 Xylenes, Total	106				0			3.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.305	11.304	0.001	100	261822	2.00	2.19	
120 o-Xylene	106	11.634	11.634	0.000	95	125445	1.00	1.06	
121 Styrene	104	11.652	11.652	0.000	95	220754	1.00	1.10	
122 Bromoform	173	11.804	11.804	0.000	98	26899	1.00	0.9698	
123 Isopropylbenzene	105	11.939	11.938	0.001	95	326045	1.00	1.08	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	840581	10.0	9.98	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.188	-0.006	95	58969	1.00	1.05	
128 Bromobenzene	156	12.195	12.194	0.001	91	92485	1.00	1.14	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	93	126083	10.0	9.50	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	17133	1.00	1.06	
131 N-Propylbenzene	91	12.268	12.268	0.000	99	394622	1.00	1.12	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	85619	1.00	1.10	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	284846	1.00	1.08	
134 4-Chlorotoluene	126	12.439	12.438	0.000	97	97891	1.00	1.21	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	65628	1.00	1.08	
136 Pentachloroethane	167	12.676	12.676	0.000	89	42730	1.00	0.9789	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	297385	1.00	1.09	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	369489	1.00	1.11	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	199241	1.00	1.19	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	333901	1.00	1.10	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1050836	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	227035	1.00	1.30	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	134921	1.00	1.08	
144 Benzyl chloride	126	13.060	13.060	0.000	98	16060	1.00	0.8851	
145 p-Diethylbenzene	119	13.115	13.121	-0.006	92	201053	1.00	1.12	
146 n-Butylbenzene	92	13.207	13.206	0.001	97	168500	1.00	1.14	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	186141	1.00	1.19	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	88	8619	1.00	1.04	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	163162	1.00	1.21	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	170397	1.00	1.35	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	72272	1.00	1.21	
153 Naphthalene	128	14.511	14.511	0.000	96	262955	1.00	1.23	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	144662	1.00	1.30	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	94	176161	1.00	1.30	
166 Pentane	43	2.934	2.916	0.018	98	68584	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

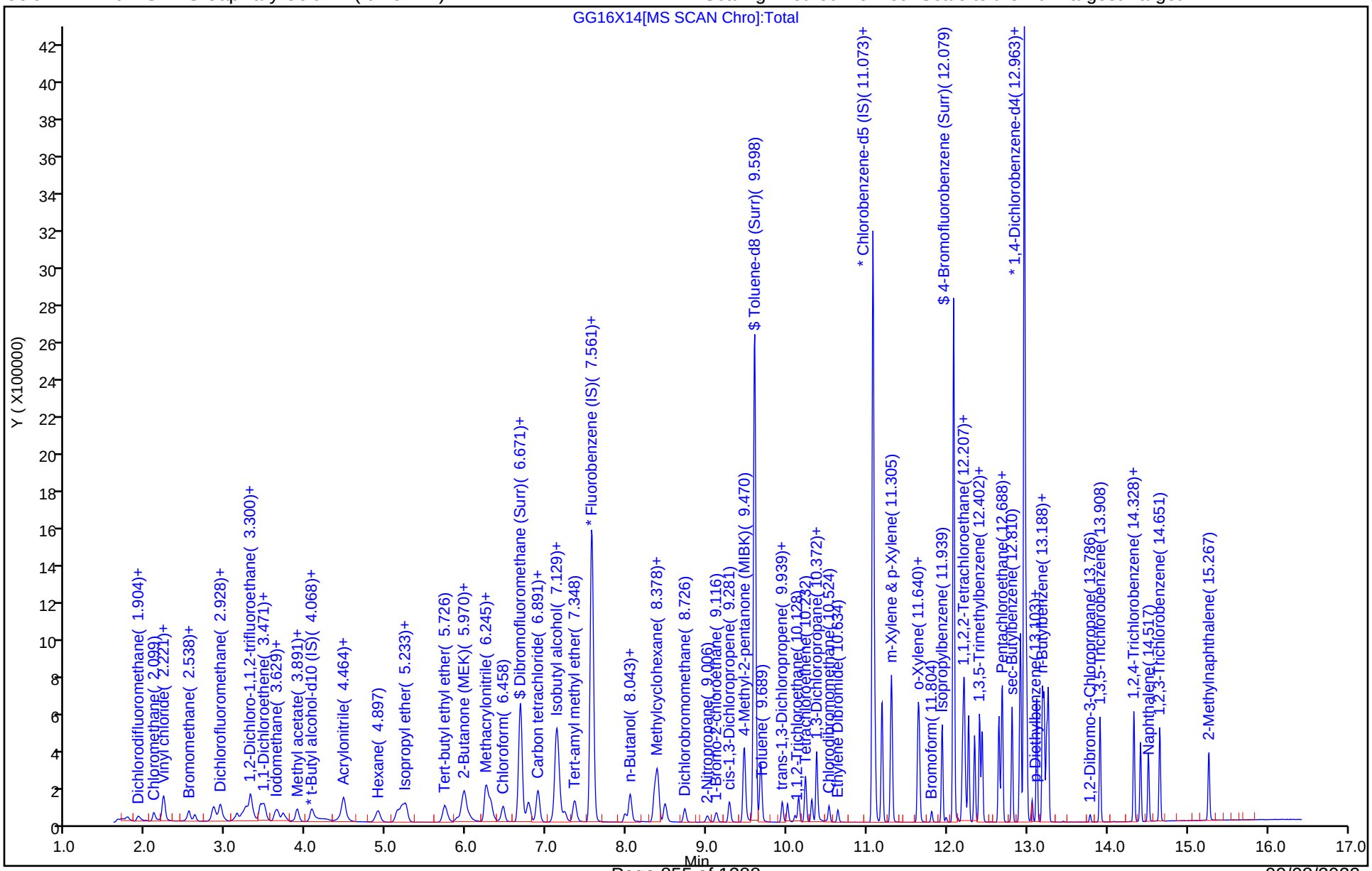
Report Date: 30-Aug-2022 10:48:36 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D

Injection Date:	16-Aug-2022 18:10:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std3			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

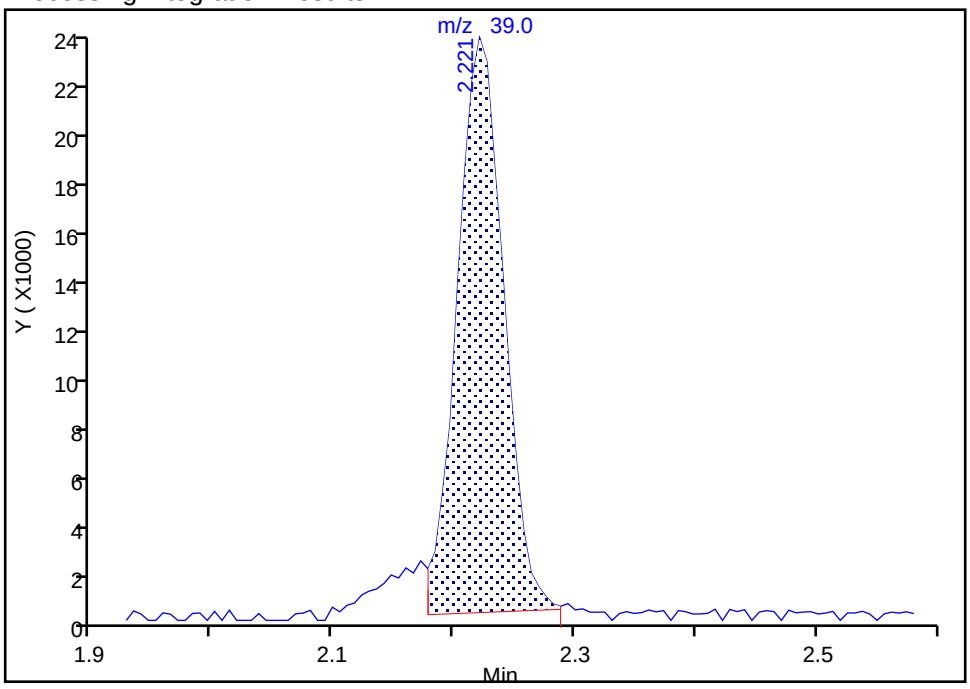
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D				
Injection Date:	16-Aug-2022 18:10:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

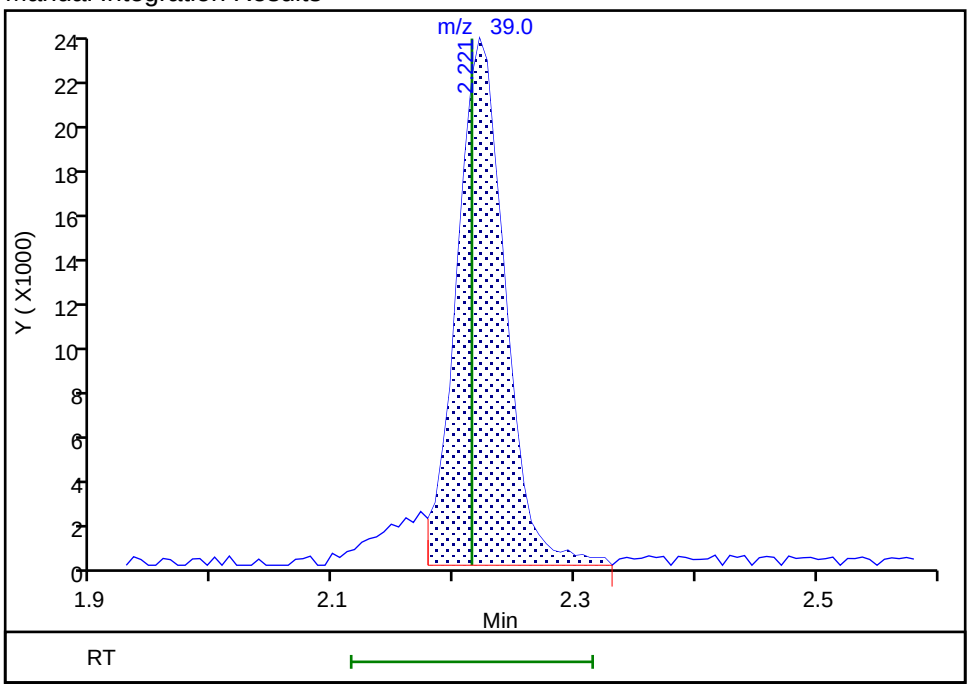
Processing Integration Results

RT: 2.22
Area: 62770
Amount: 0.996718
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 66066
Amount: 1.041270
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:36:21
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

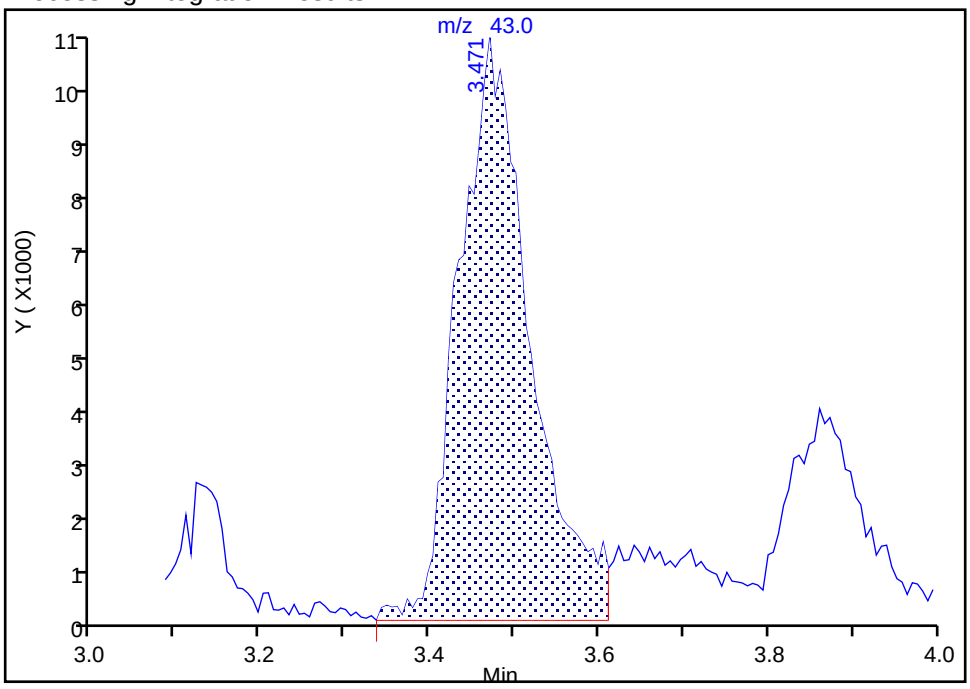
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D				
Injection Date:	16-Aug-2022 18:10:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

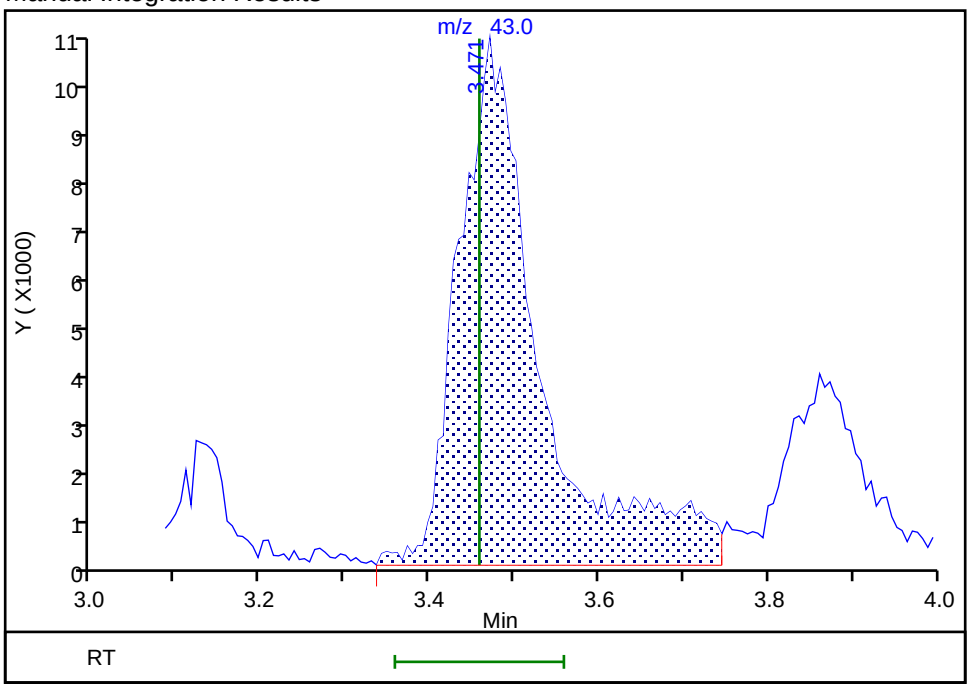
Processing Integration Results

RT: 3.47
Area: 59249
Amount: 8.710722
Amount Units: ug/l



Manual Integration Results

RT: 3.47
Area: 67653
Amount: 9.744325
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:36:51
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

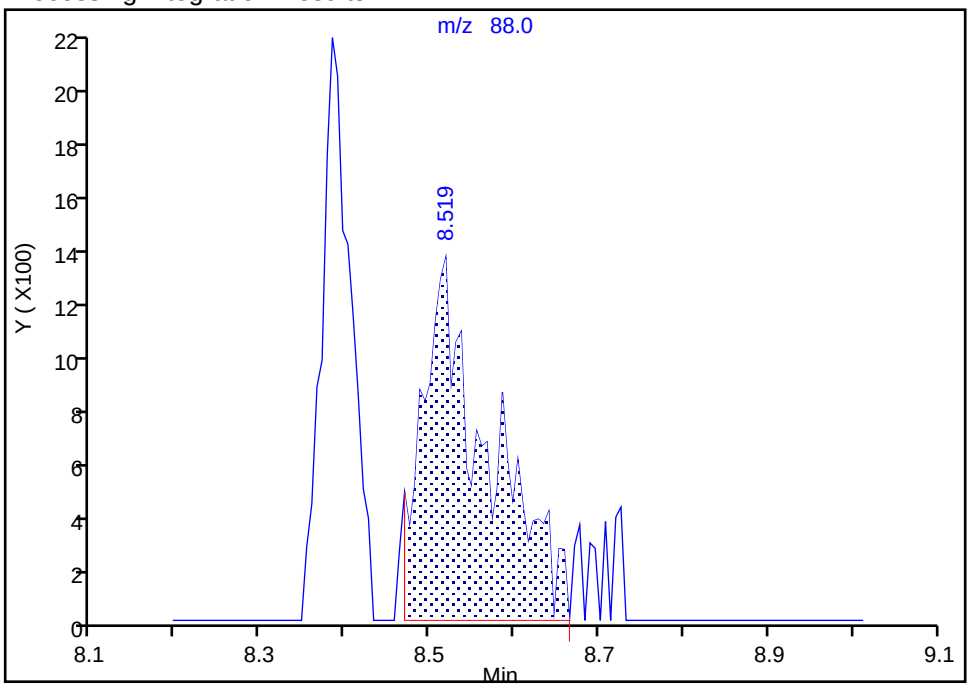
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D				
Injection Date:	16-Aug-2022 18:10:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

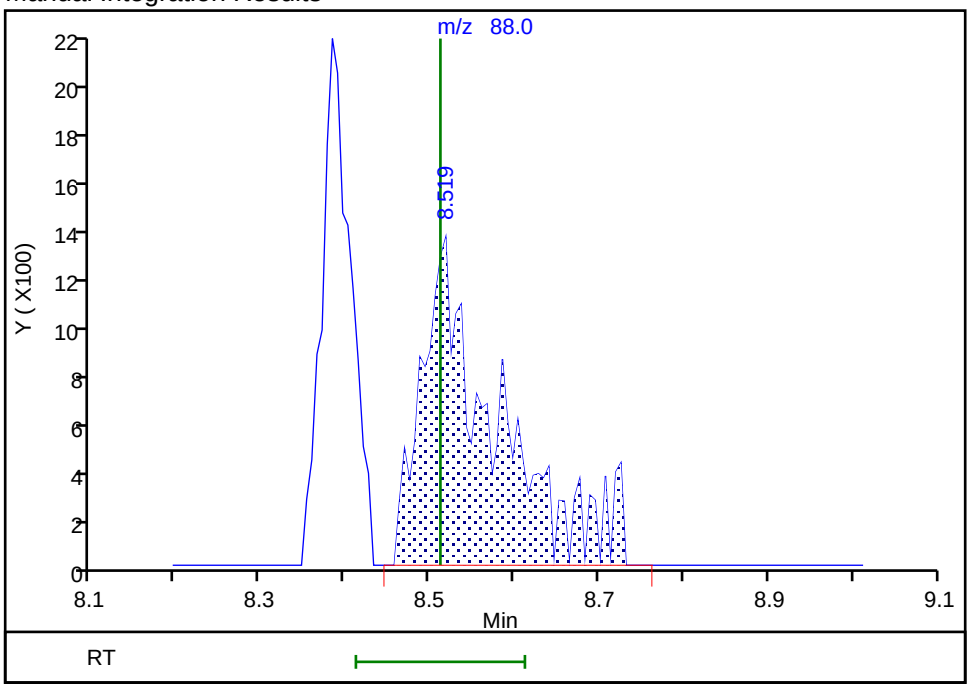
Processing Integration Results

RT: 8.52
Area: 7082
Amount: 57.397799
Amount Units: ug/l



Manual Integration Results

RT: 8.52
Area: 8023
Amount: 57.799962
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:37:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 16-Aug-2022 18:32:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-016
Misc. Info.: IC STD4
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:41 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:40:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.904	1.904	0.000	99	121942	2.00	2.09	
5 Chloromethane	50	2.099	2.099	0.000	99	135367	2.00	2.06	
6 Vinyl chloride	62	2.209	2.209	0.000	98	139755	2.00	2.08	
7 Butadiene	39	2.221	2.221	0.000	93	121727	2.00	1.91	
9 Bromomethane	94	2.532	2.532	0.000	90	108098	2.00	2.04	
10 Chloroethane	64	2.605	2.605	0.000	99	82418	2.00	2.06	
11 Dichlorofluoromethane	67	2.843	2.843	0.000	97	201792	2.00	2.06	
12 Trichlorofluoromethane	101	2.910	2.910	0.000	95	194398	2.00	2.11	
13 Ethyl ether	59	3.135	3.135	0.000	89	87075	2.00	2.03	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.227	0.000	91	130855	2.00	2.01	
17 Acrolein	56	3.306	3.306	0.000	99	643594	100.0	111.5	
18 1,1-Dichloroethene	96	3.434	3.434	0.000	97	96997	2.00	2.01	
20 Acetone	43	3.477	3.477	0.000	77	132378	20.0	20.9	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.477	3.477	0.000	89	97302	2.00	2.06	
21 Iodomethane	142	3.611	3.611	0.000	98	185762	2.00	2.03	
22 Ethyl bromide	108	3.641	3.641	0.000	98	89188	2.00	2.01	
24 Isopropyl alcohol	45	3.708	3.708	0.000	26	45850	40.0	37.0	
23 Carbon disulfide	76	3.714	3.714	0.000	99	228472	2.00	1.94	
25 Methyl acetate	43	3.867	3.867	0.000	45	41982	2.00	2.14	
27 3-Chloro-1-propene	41	3.885	3.885	0.000	89	126514	2.00	1.94	
29 Methylene Chloride	84	4.068	4.068	0.000	86	110925	2.00	2.07	
* 30 t-Butyl alcohol-d10 (IS)	65	4.117	4.117	0.000	61	124917	50.0	50.0	
31 2-Methyl-2-propanol	59	4.233	4.233	0.000	97	95457	40.0	43.1	
32 Acrylonitrile	53	4.403	4.403	0.000	98	50401	5.00	6.00	
33 Methyl tert-butyl ether	73	4.458	4.458	0.000	89	281948	2.00	2.04	
34 trans-1,2-Dichloroethene	96	4.470	4.470	0.000	97	115672	2.00	2.05	
35 Hexane	57	4.891	4.891	0.000	91	124939	2.00	2.03	
37 1,1-Dichloroethane	63	5.135	5.135	0.000	96	184918	2.00	2.02	
38 Isopropyl ether	45	5.202	5.202	0.000	93	308794	2.00	2.03	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	90	148170	2.00	2.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.726	0.000	97	318098	2.00	2.04	
41 2-Butanone (MEK)	43	5.946	5.946	0.000	99	273098	20.0	21.8	
42 cis-1,2-Dichloroethene	96	5.970	5.970	0.000	80	125389	2.00	2.03	
43 2,2-Dichloropropane	77	5.988	5.988	0.000	87	147961	2.00	1.99	
45 Propionitrile	54	6.037	6.037	0.000	98	129473	40.0	43.7	
S 47 1,2-Dichloroethene, Total	100				0			4.08	
48 Methacrylonitrile	67	6.244	6.244	0.000	90	302812	20.0	22.7	
49 Chlorobromomethane	128	6.305	6.305	0.000	86	61518	2.00	2.08	
50 Tetrahydrofuran	71	6.311	6.311	0.000	70	41668	10.0	11.2	
51 Chloroform	83	6.458	6.458	0.000	93	200225	2.00	2.04	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	562381	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.683	6.683	0.000	98	171777	2.00	2.00	
54 Cyclohexane	56	6.775	6.775	0.000	88	158669	2.00	2.03	
56 Carbon tetrachloride	117	6.884	6.884	0.000	84	147932	2.00	2.00	
57 1,1-Dichloropropene	75	6.897	6.897	0.000	96	154228	2.00	2.02	
58 Isobutyl alcohol	41	7.086	7.086	0.000	90	77842	100.0	96.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	79	118676	10.0	10.0	
60 Benzene	78	7.159	7.159	0.000	96	454392	2.00	2.02	
61 1,2-Dichloroethane	62	7.220	7.220	0.000	98	132376	2.00	2.07	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	98	300963	2.00	2.03	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2244586	10.0	10.0	
65 n-Heptane	43	7.573	7.573	0.000	87	130073	2.00	2.02	
67 n-Butanol	56	7.982	7.982	0.000	88	120549	175.0	186.6	
68 Trichloroethene	95	8.043	8.043	0.000	96	125798	2.00	2.00	
69 Methylcyclohexane	83	8.348	8.348	0.000	88	192698	2.00	2.06	M
70 1,2-Dichloropropane	63	8.372	8.372	0.000	95	110737	2.00	2.01	
71 2-ethoxy-2-methyl butane	87	8.384	8.384	0.000	96	177346	2.00	2.02	
72 Methyl methacrylate	69	8.470	8.470	0.000	87	58583	2.00	2.25	
73 Dibromomethane	93	8.482	8.482	0.000	92	61890	2.00	2.05	
74 1,4-Dioxane	88	8.512	8.512	0.000	28	13711	100.0	100.9	M
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	131278	2.00	1.99	
77 2-Nitropropane	41	9.000	9.000	0.000	99	62444	10.0	10.7	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	122662	2.00	2.06	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	167481	2.00	2.03	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	736571	20.0	22.4	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	2269767	10.0	10.0	
84 Toluene	92	9.677	9.677	0.000	98	310469	2.00	2.02	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	137931	2.00	2.02	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	119274	2.00	2.03	
S 105 1,3-Dichloropropene, Total	100				0			4.05	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	90526	2.00	2.01	
107 Tetrachloroethene	166	10.231	10.231	0.000	97	154129	2.00	2.00	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	89	149909	2.00	2.03	
109 2-Hexanone	43	10.372	10.372	0.000	96	532561	20.0	22.2	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	100469	2.00	2.04	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	90775	2.00	2.04	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1767884	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	95	167744	2.00	1.95	
115 Chlorobenzene	112	11.097	11.097	0.000	97	373854	2.00	2.01	
117 1,1,1,2-Tetrachloroethane	131	11.182	11.182	0.000	94	121181	2.00	2.03	
116 Ethylbenzene	91	11.188	11.188	0.000	98	598666	2.00	2.01	
S 118 Xylenes, Total	106				0			6.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	483843	4.00	4.05	
120 o-Xylene	106	11.634	11.634	0.000	96	239128	2.00	2.02	
121 Styrene	104	11.652	11.652	0.000	95	405386	2.00	2.02	
122 Bromoform	173	11.804	11.804	0.000	97	54321	2.00	1.96	
123 Isopropylbenzene	105	11.938	11.938	0.000	95	608693	2.00	2.01	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	844497	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	94	114734	2.00	2.03	
128 Bromobenzene	156	12.194	12.194	0.000	93	164416	2.00	2.02	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	94	266551	20.0	22.0	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	82	32366	2.00	2.00	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	713265	2.00	2.01	
132 2-Chlorotoluene	126	12.341	12.341	0.000	98	153864	2.00	1.97	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	535420	2.00	2.01	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	160453	2.00	1.96	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	118213	2.00	1.93	
136 Pentachloroethane	167	12.676	12.676	0.000	87	88614	2.00	2.02	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	554653	2.00	2.02	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	672099	2.00	2.01	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	330665	2.00	1.97	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	615806	2.00	2.02	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	94	1056705	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	336330	2.00	1.91	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	252371	2.00	2.00	
144 Benzyl chloride	126	13.060	13.060	0.000	98	35450	2.00	1.74	
145 p-Diethylbenzene	119	13.121	13.121	0.000	93	363783	2.00	2.01	
146 n-Butylbenzene	92	13.206	13.206	0.000	97	292758	2.00	1.97	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	312578	2.00	1.98	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	89	16770	2.00	2.02	
150 1,3,5-Trichlorobenzene	180	13.907	13.907	0.000	98	263813	2.00	1.95	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	243272	2.00	1.92	
152 Hexachlorobutadiene	225	14.413	14.413	0.000	96	116692	2.00	1.94	
153 Naphthalene	128	14.511	14.511	0.000	96	419110	2.00	1.95	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	213681	2.00	1.90	
155 2-Methylnaphthalene	142	15.267	15.267	0.000	93	255287	2.00	1.86	
166 Pentane	43	2.928	2.928	0.000	96	125413	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

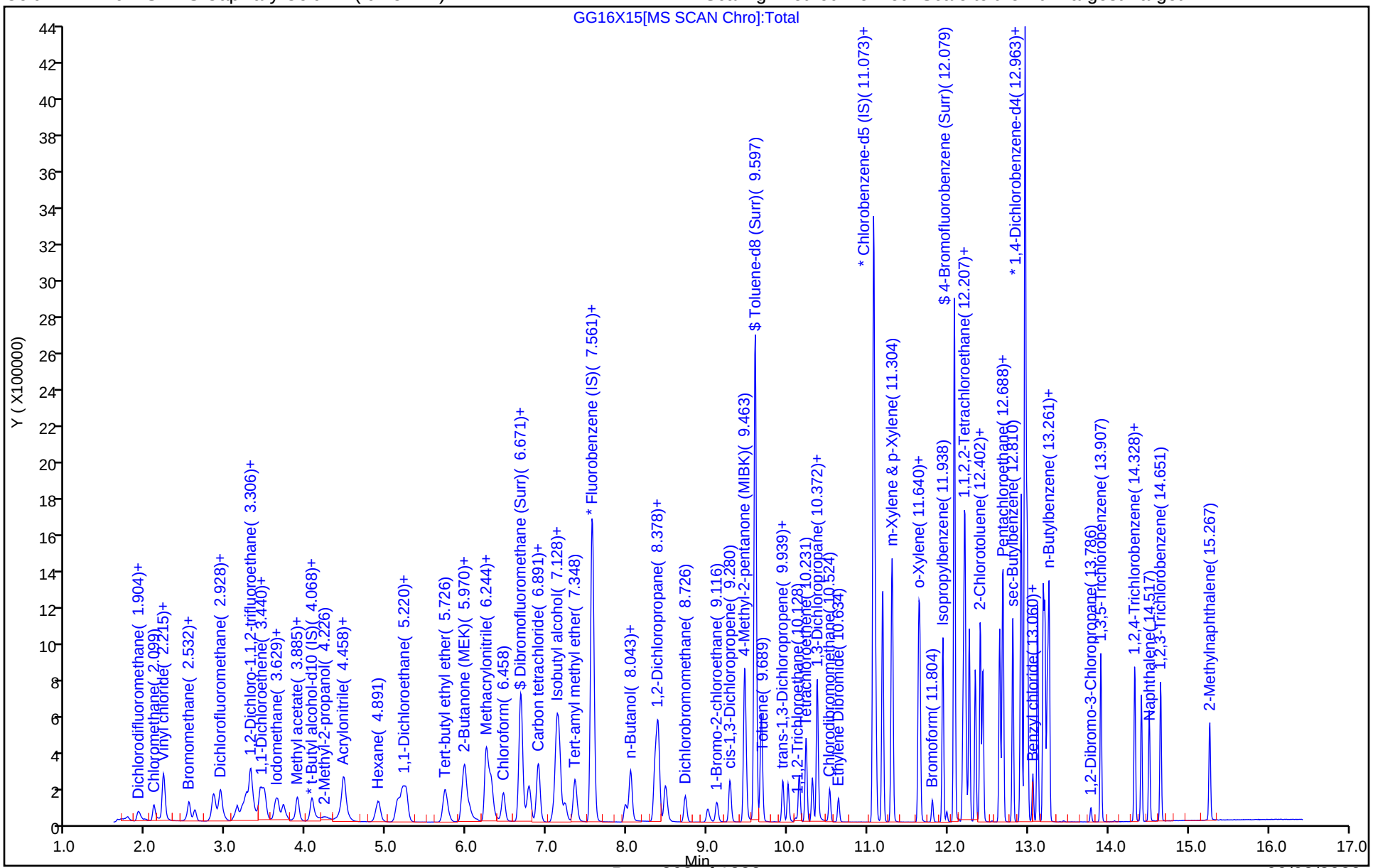
Report Date: 30-Aug-2022 10:48:42 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D

Injection Date:	16-Aug-2022 18:32:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std4			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

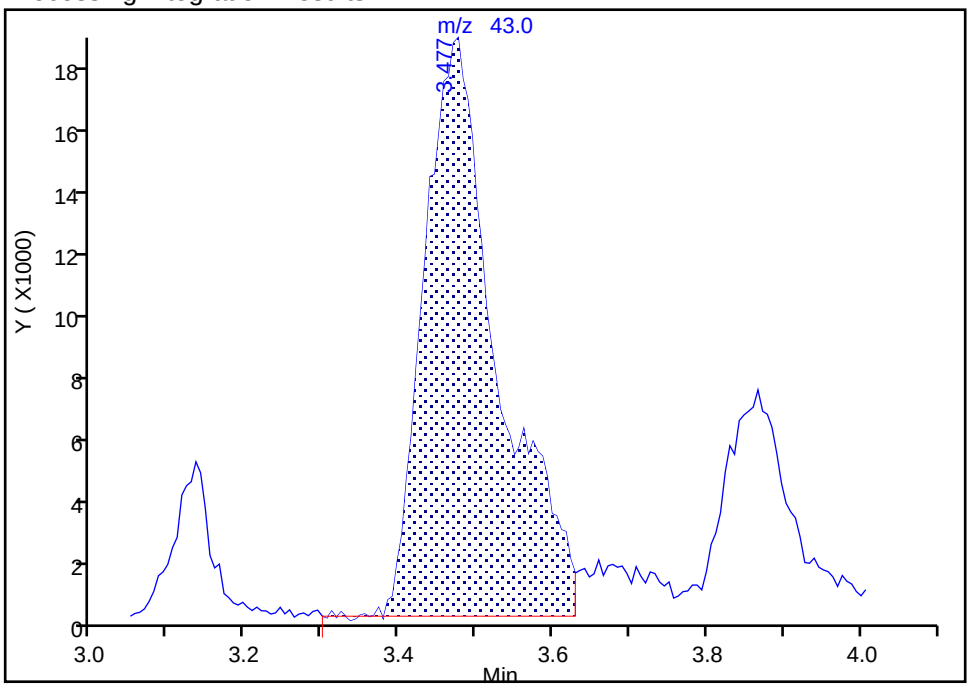
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D				
Injection Date:	16-Aug-2022 18:32:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

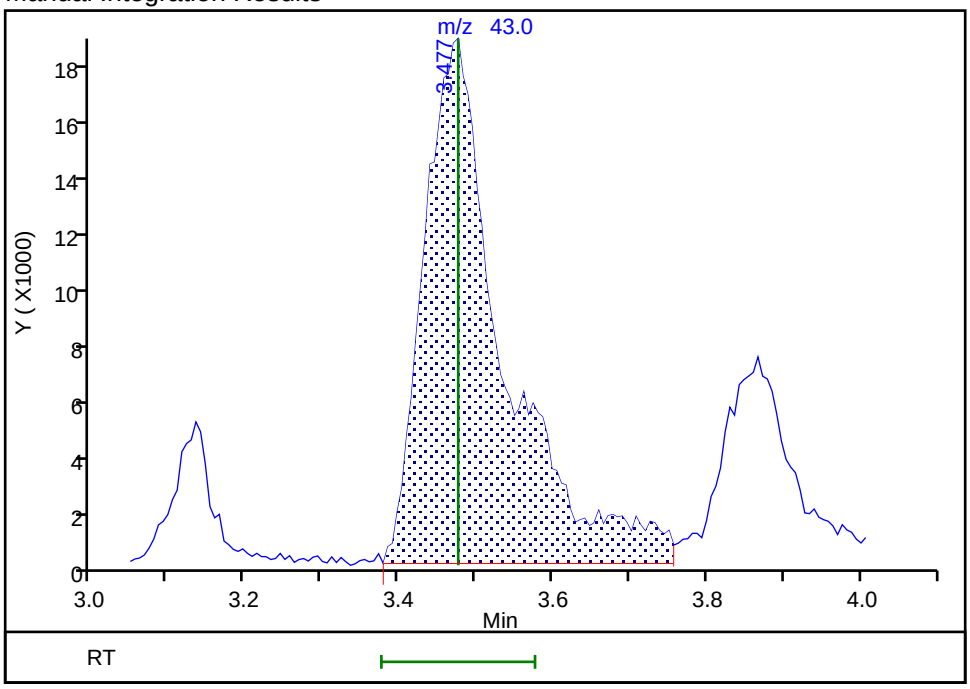
Processing Integration Results

RT: 3.48
Area: 120806
Amount: 19.132919
Amount Units: ug/l



Manual Integration Results

RT: 3.48
Area: 132378
Amount: 20.902527
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:38:59
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

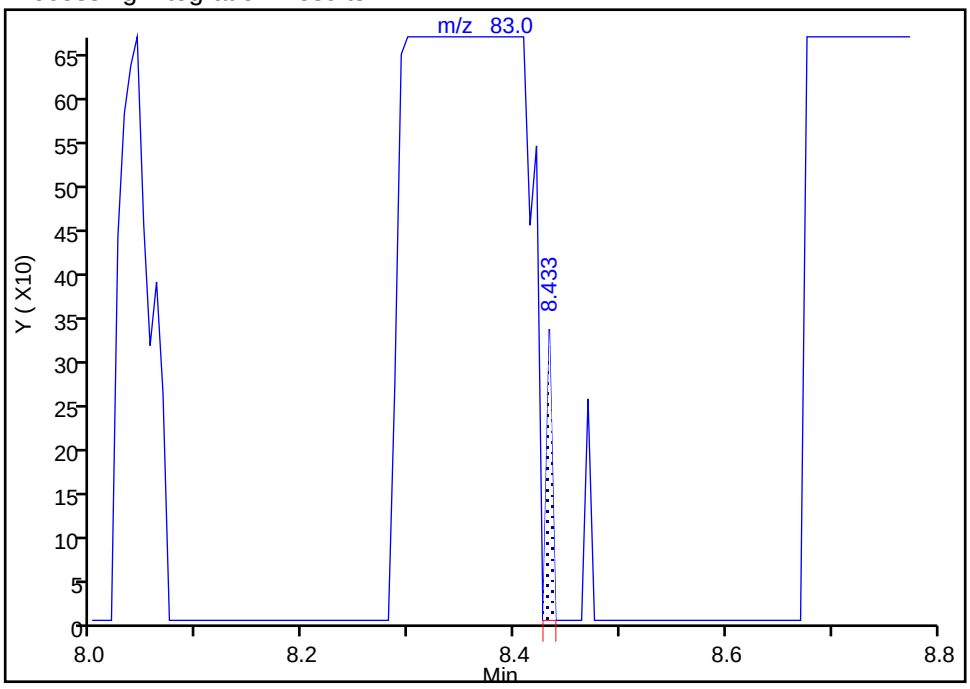
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D				
Injection Date:	16-Aug-2022 18:32:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Methylcyclohexane, CAS: 108-87-2

Signal: 1

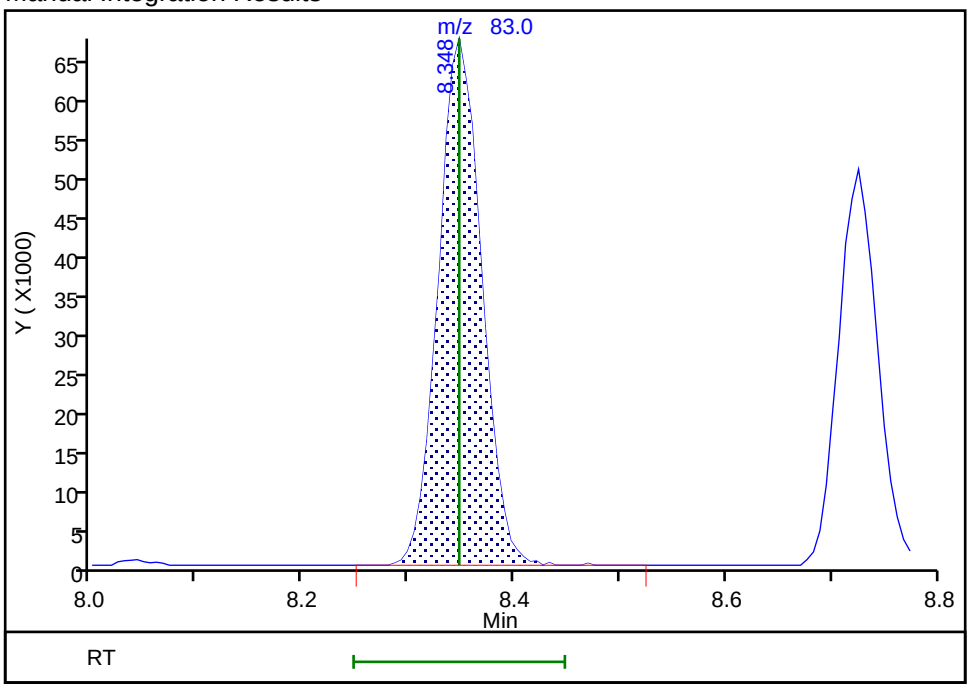
Processing Integration Results

RT: 8.43
Area: 122
Amount: 0.001532
Amount Units: ug/l



Manual Integration Results

RT: 8.35
Area: 192698
Amount: 2.062920
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:39:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

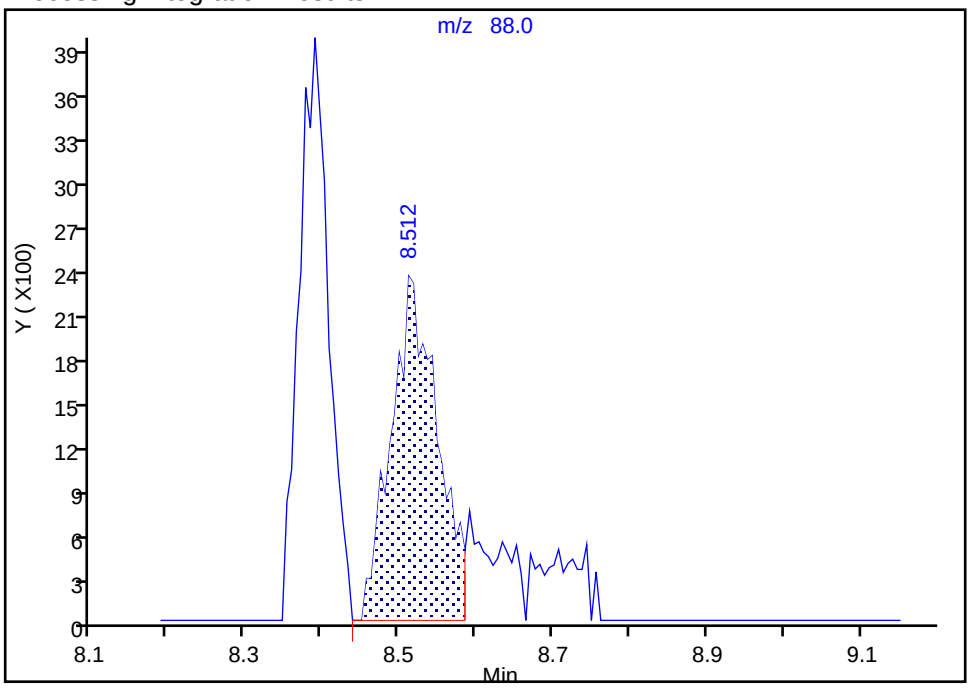
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D				
Injection Date:	16-Aug-2022 18:32:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

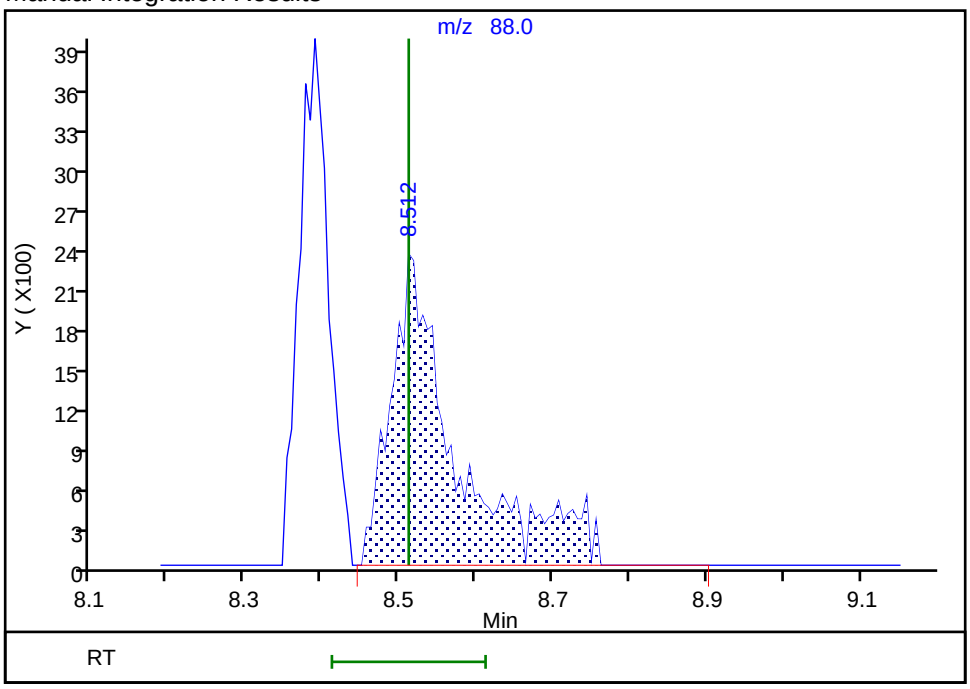
Processing Integration Results

RT: 8.51
Area: 9681
Amount: 84.181392
Amount Units: ug/l



Manual Integration Results

RT: 8.51
Area: 13711
Amount: 100.8926
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:39:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X16.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 16-Aug-2022 18:54:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-017
Misc. Info.: IC STD5
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:48 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:42:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.904	-0.006	99	309456	5.00	5.19	
5 Chloromethane	50	2.093	2.099	-0.006	99	324413	5.00	4.82	
6 Vinyl chloride	62	2.209	2.209	0.000	98	342332	5.00	4.98	
7 Butadiene	39	2.221	2.221	0.000	93	300502	5.00	4.60	
9 Bromomethane	94	2.532	2.532	0.000	90	269090	5.00	4.96	
10 Chloroethane	64	2.605	2.605	0.000	100	202614	5.00	4.94	
11 Dichlorofluoromethane	67	2.843	2.843	0.000	97	493140	5.00	4.92	
12 Trichlorofluoromethane	101	2.910	2.910	0.000	98	486482	5.00	5.15	
13 Ethyl ether	59	3.129	3.135	-0.006	89	209424	5.00	4.78	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.227	0.000	91	327426	5.00	4.91	
17 Acrolein	56	3.300	3.306	-0.006	99	1523859	250.0	232.5	
18 1,1-Dichloroethene	96	3.428	3.434	-0.006	96	245013	5.00	4.95	
20 Acetone	43	3.477	3.477	0.000	100	314354	50.0	43.7	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.477	-0.012	90	244299	5.00	5.07	
21 Iodomethane	142	3.611	3.611	0.000	99	459604	5.00	4.91	
22 Ethyl bromide	108	3.641	3.641	0.000	98	222658	5.00	4.90	
24 Isopropyl alcohol	45	3.684	3.708	-0.024	98	126180	100.0	99.4	M
23 Carbon disulfide	76	3.708	3.714	-0.006	99	605450	5.00	5.02	
25 Methyl acetate	43	3.861	3.867	-0.006	96	97635	5.00	4.38	
27 3-Chloro-1-propene	41	3.885	3.885	0.000	89	322428	5.00	4.83	
29 Methylene Chloride	84	4.062	4.068	-0.006	88	266839	5.00	4.87	
* 30 t-Butyl alcohol-d10 (IS)	65	4.129	4.117	0.012	59	141819	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.257	4.233	0.024	99	227979	100.0	90.7	
32 Acrylonitrile	53	4.403	4.403	0.000	96	118213	12.5	12.4	
33 Methyl tert-butyl ether	73	4.458	4.458	0.000	95	689081	5.00	4.88	
34 trans-1,2-Dichloroethene	96	4.464	4.470	-0.006	98	280004	5.00	4.85	
35 Hexane	57	4.891	4.891	0.000	92	320065	5.00	5.08	
37 1,1-Dichloroethane	63	5.129	5.135	-0.006	96	463810	5.00	4.94	
38 Isopropyl ether	45	5.196	5.202	-0.006	93	763339	5.00	4.92	
39 2-Chloro-1,3-butadiene	53	5.239	5.245	-0.006	90	367689	5.00	4.92	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.726	0.000	97	782406	5.00	4.90	
41 2-Butanone (MEK)	43	5.940	5.946	-0.006	99	657590	50.0	46.3	
42 cis-1,2-Dichloroethene	96	5.970	5.970	0.000	79	311354	5.00	4.93	
43 2,2-Dichloropropane	77	5.976	5.988	-0.012	86	374656	5.00	4.93	
45 Propionitrile	54	6.031	6.037	-0.006	98	309435	100.0	91.9	
S 47 1,2-Dichloroethene, Total	100				0			9.78	
48 Methacrylonitrile	67	6.238	6.244	-0.006	89	730347	50.0	48.2	
49 Chlorobromomethane	128	6.299	6.305	-0.006	86	150087	5.00	4.96	
50 Tetrahydrofuran	71	6.312	6.311	0.001	87	99709	25.0	23.6	
51 Chloroform	83	6.458	6.458	0.000	92	492942	5.00	4.90	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	569458	10.0	9.99	
53 1,1,1-Trichloroethane	97	6.677	6.683	-0.006	98	436738	5.00	4.98	
54 Cyclohexane	56	6.769	6.775	-0.006	88	400341	5.00	5.02	
56 Carbon tetrachloride	117	6.891	6.884	0.007	97	379275	5.00	5.02	
57 1,1-Dichloropropene	75	6.891	6.897	-0.006	98	379228	5.00	4.86	
58 Isobutyl alcohol	41	7.086	7.086	0.000	93	207990	250.0	252.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.116	7.122	-0.006	94	120145	10.0	9.92	
60 Benzene	78	7.153	7.159	-0.006	97	1119385	5.00	4.87	
61 1,2-Dichloroethane	62	7.226	7.220	0.006	98	312259	5.00	4.76	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	742232	5.00	4.90	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2296832	10.0	10.0	
65 n-Heptane	43	7.580	7.573	0.007	88	325135	5.00	4.93	
67 n-Butanol	56	7.976	7.982	-0.006	88	336181	437.5	458.3	
68 Trichloroethene	95	8.043	8.043	0.000	96	311065	5.00	4.84	
69 Methylcyclohexane	83	8.348	8.348	0.000	89	488253	5.00	5.11	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	96	278961	5.00	4.96	
71 2-ethoxy-2-methyl butane	87	8.390	8.384	0.006	96	446248	5.00	4.96	
72 Methyl methacrylate	69	8.470	8.470	0.000	89	150481	5.00	5.10	
73 Dibromomethane	93	8.482	8.482	0.000	93	151360	5.00	4.90	
74 1,4-Dioxane	88	8.512	8.512	0.000	77	40992	250.0	251.9	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	338682	5.00	5.01	
77 2-Nitropropane	41	9.006	9.000	0.006	99	164814	25.0	24.8	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	302891	5.00	4.97	
81 cis-1,3-Dichloropropene	75	9.281	9.280	0.001	96	436053	5.00	5.17	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	95	1803882	50.0	48.2	
$ 83 Toluene-d8 (Surr)	98	9.598	9.597	0.001	93	2324549	10.0	10.0	
84 Toluene	92	9.671	9.677	-0.006	98	768926	5.00	4.88	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	363656	5.00	5.18	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	302877	5.00	5.01	
S 105 1,3-Dichloropropene, Total	100				0			10.4	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	226496	5.00	4.89	
107 Tetrachloroethene	166	10.232	10.231	0.001	98	387678	5.00	4.89	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	375996	5.00	4.95	
109 2-Hexanone	43	10.366	10.372	-0.006	96	1333367	50.0	48.9	
111 Chlorodibromomethane	129	10.524	10.524	0.000	90	260325	5.00	5.14	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	227669	5.00	4.99	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1816359	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	94	417226	5.00	4.72	
115 Chlorobenzene	112	11.097	11.097	0.000	97	920189	5.00	4.83	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	95	312197	5.00	5.10	
116 Ethylbenzene	91	11.189	11.188	0.001	98	1495963	5.00	4.90	
S 118 Xylenes, Total	106				0			14.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.305	11.304	0.001	100	1203658	10.0	9.81	
120 o-Xylene	106	11.634	11.634	0.000	96	599982	5.00	4.93	
121 Styrene	104	11.652	11.652	0.000	95	1021299	5.00	4.96	
122 Bromoform	173	11.804	11.804	0.000	98	151523	5.00	5.31	
123 Isopropylbenzene	105	11.939	11.938	0.001	95	1546232	5.00	4.97	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	867829	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.188	-0.006	93	283824	5.00	4.94	
128 Bromobenzene	156	12.195	12.194	0.001	95	403102	5.00	4.87	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	92	697816	50.0	50.8	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	80131	5.00	4.86	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	1785725	5.00	4.94	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	389174	5.00	4.89	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	1345338	5.00	4.97	
134 4-Chlorotoluene	126	12.432	12.438	-0.006	97	404234	5.00	4.86	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	325244	5.00	5.21	
136 Pentachloroethane	167	12.676	12.676	0.000	89	236231	5.00	5.29	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	1385450	5.00	4.96	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	1693291	5.00	4.98	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	822505	5.00	4.81	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	1538963	5.00	4.97	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1075545	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	838636	5.00	4.68	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	627888	5.00	4.90	
144 Benzyl chloride	126	13.060	13.060	0.000	98	99881	5.00	4.52	
145 p-Diethylbenzene	119	13.115	13.121	-0.006	92	922469	5.00	5.00	
146 n-Butylbenzene	92	13.207	13.206	0.001	97	747850	5.00	4.94	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	770054	5.00	4.80	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	91	44123	5.00	5.21	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	661659	5.00	4.80	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	612781	5.00	4.74	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	296487	5.00	4.84	
153 Naphthalene	128	14.511	14.511	0.000	96	1062115	5.00	4.86	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	542883	5.00	4.75	
155 2-Methylnaphthalene	142	15.267	15.267	0.000	92	672244	5.00	4.77	
166 Pentane	43	2.928	2.928	0.000	96	317982	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	5.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

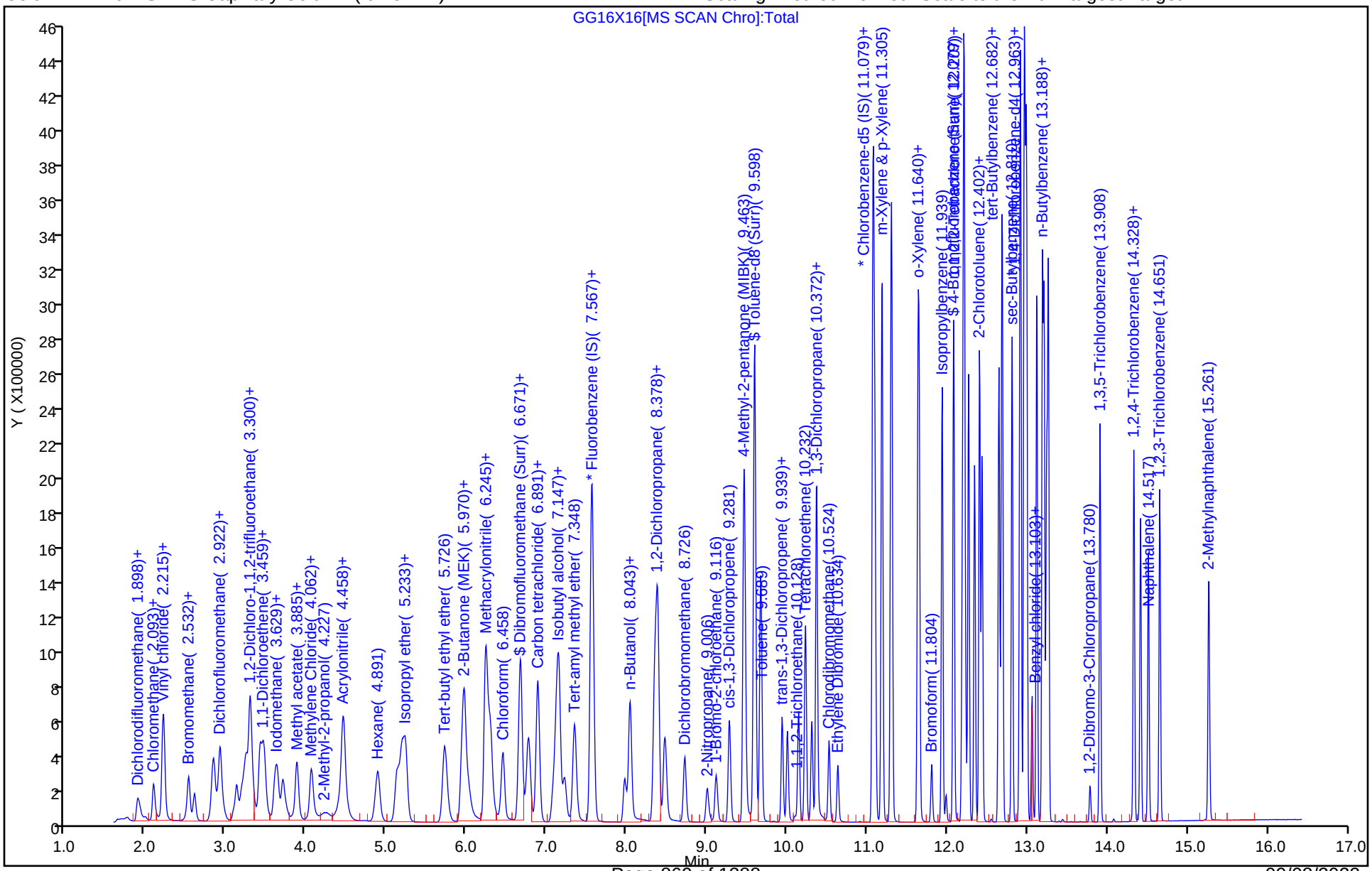
Report Date: 30-Aug-2022 10:48:49 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X16.D

Injection Date:	16-Aug-2022 18:54:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std5			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

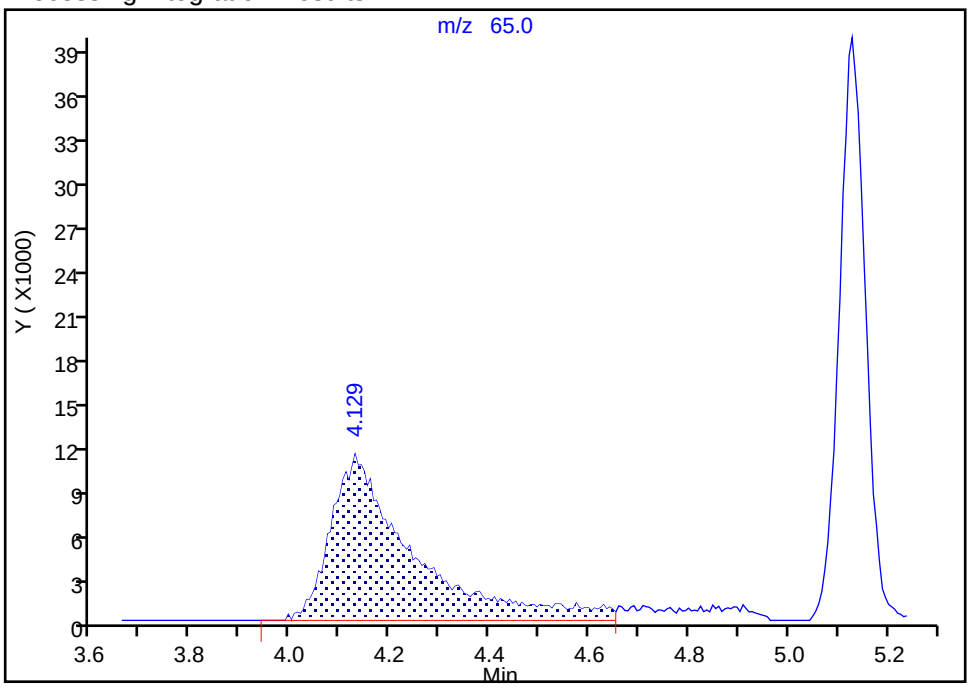
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X16.D				
Injection Date:	16-Aug-2022 18:54:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

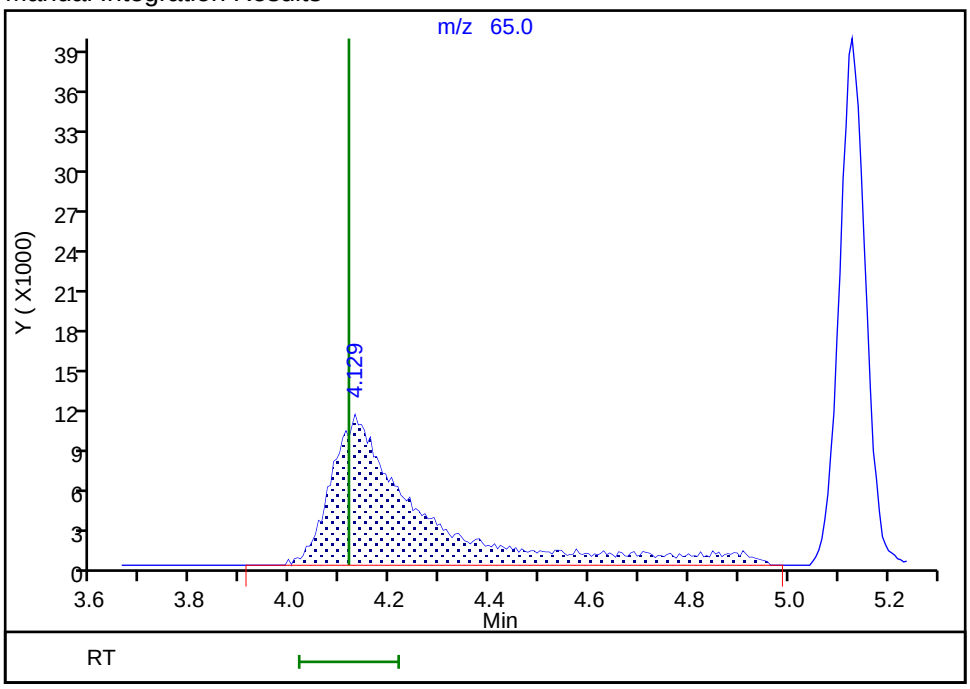
Processing Integration Results

RT: 4.13
Area: 128428
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.13
Area: 141819
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:41:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D
Lims ID: ICIS std6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 16-Aug-2022 19:17:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-018
Misc. Info.: ICIS STD6
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:54 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 08:51:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.892	1.892	0.000	99	543104	10.0	8.99	
5 Chloromethane	50	2.087	2.087	0.000	99	623926	10.0	9.15	
6 Vinyl chloride	62	2.202	2.202	0.000	98	651365	10.0	9.35	
7 Butadiene	39	2.215	2.215	0.000	90	549707	10.0	8.30	
9 Bromomethane	94	2.526	2.526	0.000	90	522151	10.0	9.50	
10 Chloroethane	64	2.599	2.599	0.000	99	394390	10.0	9.49	
11 Dichlorofluoromethane	67	2.836	2.836	0.000	97	949402	10.0	9.35	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	98	882397	10.0	9.21	
13 Ethyl ether	59	3.123	3.123	0.000	89	441887	10.0	9.94	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.221	3.221	0.000	89	607384	10.0	8.98	
17 Acrolein	56	3.288	3.288	0.000	99	3027113	500.0	459.4	
18 1,1-Dichloroethene	96	3.416	3.416	0.000	97	472163	10.0	9.41	
20 Acetone	43	3.458	3.458	0.000	91	611780	100.0	84.6	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.464	3.464	0.000	90	445620	10.0	9.12	
21 Iodomethane	142	3.605	3.605	0.000	99	916804	10.0	9.66	
22 Ethyl bromide	108	3.629	3.629	0.000	98	455305	10.0	9.89	
24 Isopropyl alcohol	45	3.690	3.690	0.000	100	252460	200.0	196.2	M
23 Carbon disulfide	76	3.702	3.702	0.000	99	1259914	10.0	10.3	
25 Methyl acetate	43	3.855	3.855	0.000	97	179295	10.0	8.00	M
27 3-Chloro-1-propene	41	3.873	3.873	0.000	90	654957	10.0	9.68	
29 Methylene Chloride	84	4.056	4.056	0.000	88	533973	10.0	9.61	
* 30 t-Butyl alcohol-d10 (IS)	65	4.111	4.111	0.000	62	142576	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.245	4.245	0.000	99	451212	200.0	178.5	
32 Acrylonitrile	53	4.391	4.391	0.000	99	225968	25.0	23.6	
33 Methyl tert-butyl ether	73	4.446	4.446	0.000	94	1380419	10.0	9.65	
34 trans-1,2-Dichloroethene	96	4.458	4.458	0.000	97	565209	10.0	9.65	
35 Hexane	57	4.885	4.885	0.000	91	578952	10.0	9.06	
37 1,1-Dichloroethane	63	5.123	5.123	0.000	96	919788	10.0	9.67	
38 Isopropyl ether	45	5.184	5.184	0.000	93	1541107	10.0	9.79	
39 2-Chloro-1,3-butadiene	53	5.232	5.232	0.000	90	738815	10.0	9.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.720	5.720	0.000	97	1581755	10.0	9.77	
41 2-Butanone (MEK)	43	5.933	5.933	0.000	99	1313238	100.0	92.0	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	80	618550	10.0	9.66	
43 2,2-Dichloropropane	77	5.976	5.976	0.000	86	750727	10.0	9.75	
45 Propionitrile	54	6.025	6.025	0.000	99	652308	200.0	192.8	
48 Methacrylonitrile	67	6.238	6.238	0.000	90	1436385	100.0	94.3	
49 Chlorobromomethane	128	6.293	6.293	0.000	87	302068	10.0	9.85	
50 Tetrahydrofuran	71	6.299	6.299	0.000	88	198158	50.0	46.7	
51 Chloroform	83	6.452	6.452	0.000	93	994318	10.0	9.75	
$ 52 Dibromofluoromethane (Surr)	113	6.665	6.665	0.000	94	574786	10.0	9.94	
53 1,1,1-Trichloroethane	97	6.671	6.671	0.000	98	878121	10.0	9.87	
54 Cyclohexane	56	6.769	6.769	0.000	88	754352	10.0	9.32	
56 Carbon tetrachloride	117	6.884	6.884	0.000	97	761646	10.0	9.95	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	98	754145	10.0	9.54	
58 Isobutyl alcohol	41	7.073	7.073	0.000	93	402616	500.0	482.1	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.116	7.116	0.000	83	120860	10.0	9.84	
60 Benzene	78	7.153	7.153	0.000	96	2256270	10.0	9.68	
61 1,2-Dichloroethane	62	7.220	7.220	0.000	98	621312	10.0	9.35	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	1505621	10.0	9.81	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2328270	10.0	10.0	
65 n-Heptane	43	7.573	7.573	0.000	89	606617	10.0	9.07	
67 n-Butanol	56	7.970	7.970	0.000	88	678077	875.0	919.6	
68 Trichloroethene	95	8.043	8.043	0.000	96	626486	10.0	9.63	
69 Methylcyclohexane	83	8.341	8.341	0.000	88	911479	10.0	9.41	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	97	560993	10.0	9.84	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	97	912824	10.0	10.0	
72 Methyl methacrylate	69	8.463	8.463	0.000	89	298228	10.0	10.0	
73 Dibromomethane	93	8.482	8.482	0.000	94	308678	10.0	9.86	
74 1,4-Dioxane	88	8.512	8.512	0.000	85	82057	500.0	493.1	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	707245	10.0	10.3	
77 2-Nitropropane	41	9.000	9.000	0.000	99	347717	50.0	52.1	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	624555	10.0	10.1	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	908206	10.0	10.6	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	95	3614306	100.0	96.2	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	93	2354853	10.0	10.0	
84 Toluene	92	9.671	9.671	0.000	98	1543929	10.0	9.69	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	91	773723	10.0	10.9	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	650478	10.0	10.6	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	457075	10.0	9.75	
107 Tetrachloroethene	166	10.231	10.231	0.000	98	765371	10.0	9.54	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	755285	10.0	9.82	
109 2-Hexanone	43	10.365	10.365	0.000	95	2742555	100.0	100.1	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	564766	10.0	11.0	
112 Ethylene Dibromide	107	10.634	10.634	0.000	98	463425	10.0	10.0	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	85	1837007	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	94	822913	10.0	9.21	
115 Chlorobenzene	112	11.097	11.097	0.000	97	1852203	10.0	9.60	
117 1,1,1,2-Tetrachloroethane	131	11.182	11.182	0.000	96	646499	10.0	10.4	
116 Ethylbenzene	91	11.189	11.189	0.000	98	3000498	10.0	9.71	
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	2438249	20.0	19.6	
120 o-Xylene	106	11.634	11.634	0.000	96	1212115	10.0	9.85	
121 Styrene	104	11.652	11.652	0.000	95	2083651	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromoform	173	11.804	11.804	0.000	98	341791	10.0	11.8	
123 Isopropylbenzene	105	11.938	11.938	0.000	95	3089905	10.0	9.83	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	876789	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	586290	10.0	10.0	
128 Bromobenzene	156	12.194	12.194	0.000	94	818805	10.0	9.70	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	92	1470724	100.0	106.4	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	167099	10.0	9.93	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	3573339	10.0	9.69	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	781491	10.0	9.64	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	2718476	10.0	9.84	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	810236	10.0	9.56	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	644132	10.0	10.1	
136 Pentachloroethane	167	12.676	12.676	0.000	92	515383	10.0	11.3	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	2819726	10.0	9.91	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	3397918	10.0	9.81	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	1669850	10.0	9.58	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	3116611	10.0	9.87	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1096296	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	1702506	10.0	9.33	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	99	1267015	10.0	9.70	
144 Benzyl chloride	126	13.060	13.060	0.000	98	222558	10.0	9.69	
145 p-Diethylbenzene	119	13.121	13.121	0.000	92	1864979	10.0	9.92	
146 n-Butylbenzene	92	13.206	13.206	0.000	97	1496880	10.0	9.70	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	1560520	10.0	9.54	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	91	97321	10.0	11.3	
150 1,3,5-Trichlorobenzene	180	13.907	13.907	0.000	98	1349753	10.0	9.61	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	1258666	10.0	9.55	
152 Hexachlorobutadiene	225	14.413	14.413	0.000	96	601182	10.0	9.63	
153 Naphthalene	128	14.511	14.511	0.000	96	2224425	10.0	9.98	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	1124358	10.0	9.66	
155 2-Methylnaphthalene	142	15.261	15.261	0.000	94	1449950	10.0	10.1	
166 Pentane	43	2.916	2.916	0.000	96	578292	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added: 10.00	Units: uL	
MSV_29_826ISS_00037	Amount Added: 1.00	Units: uL	Run Reagent

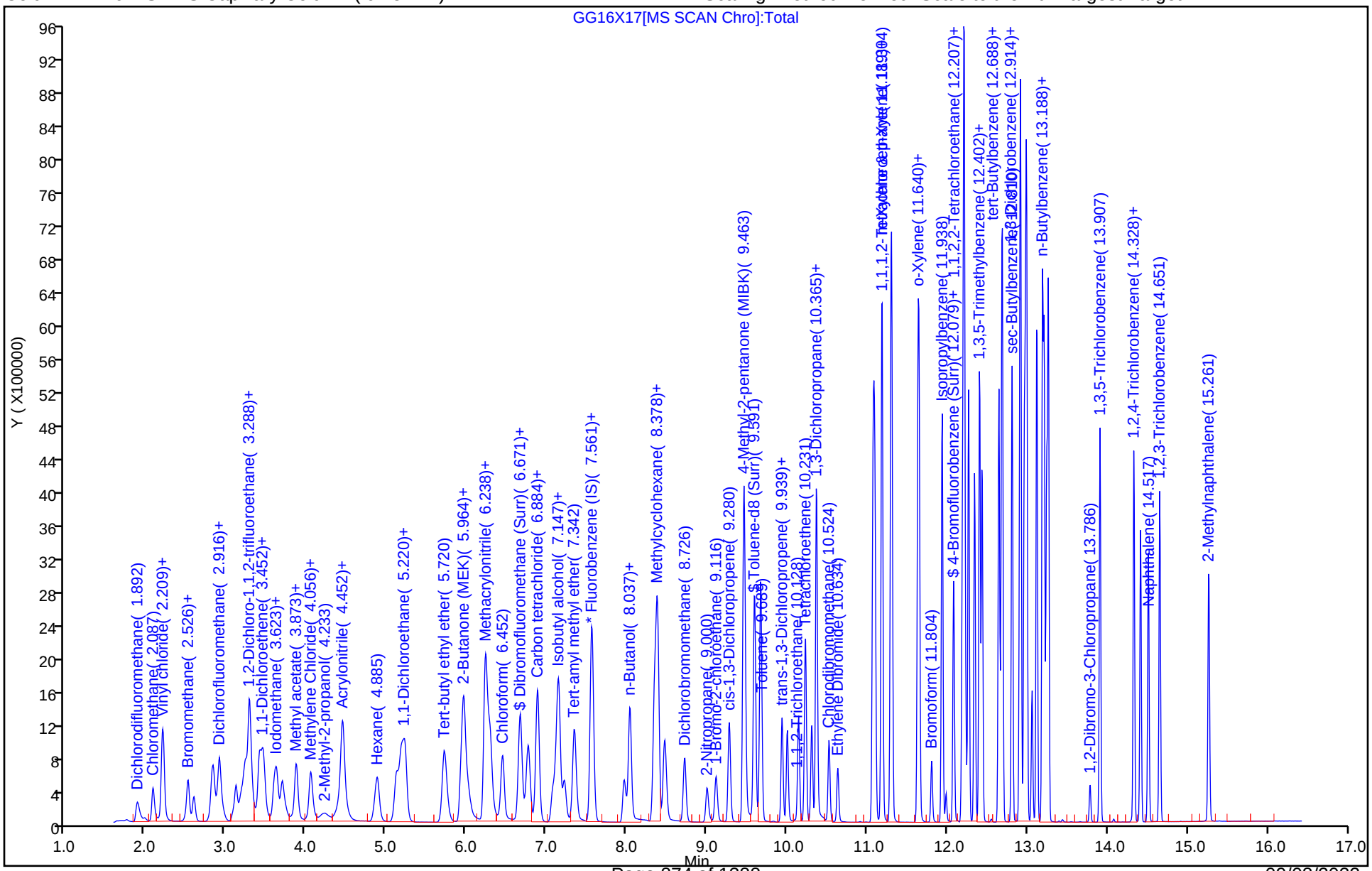
Report Date: 30-Aug-2022 10:48:55 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D

Injection Date:	16-Aug-2022 19:17:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	ICIS std6			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

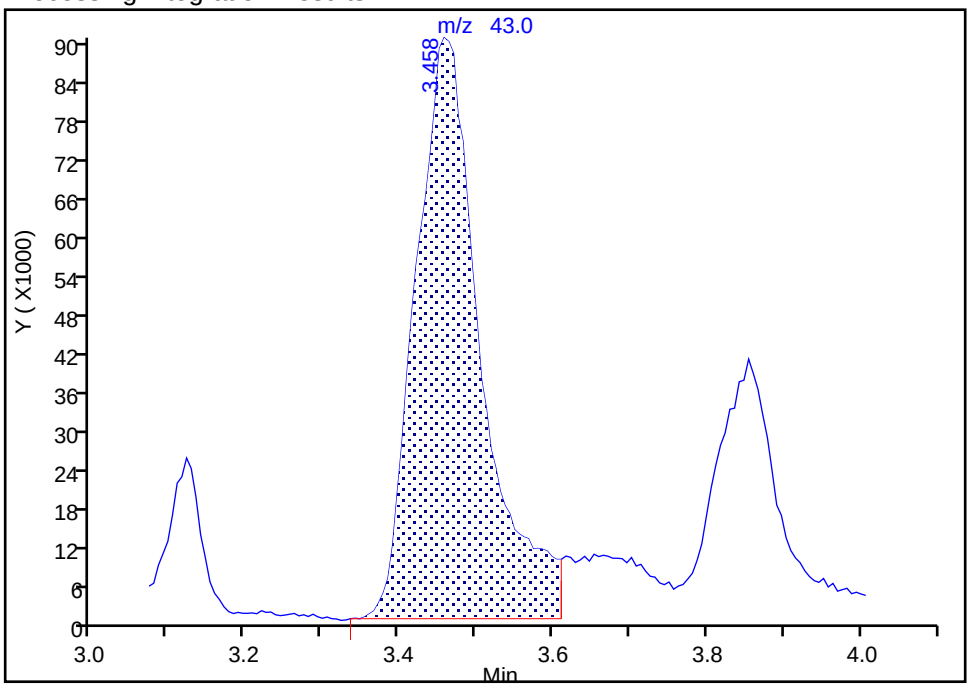
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D				
Injection Date:	16-Aug-2022 19:17:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

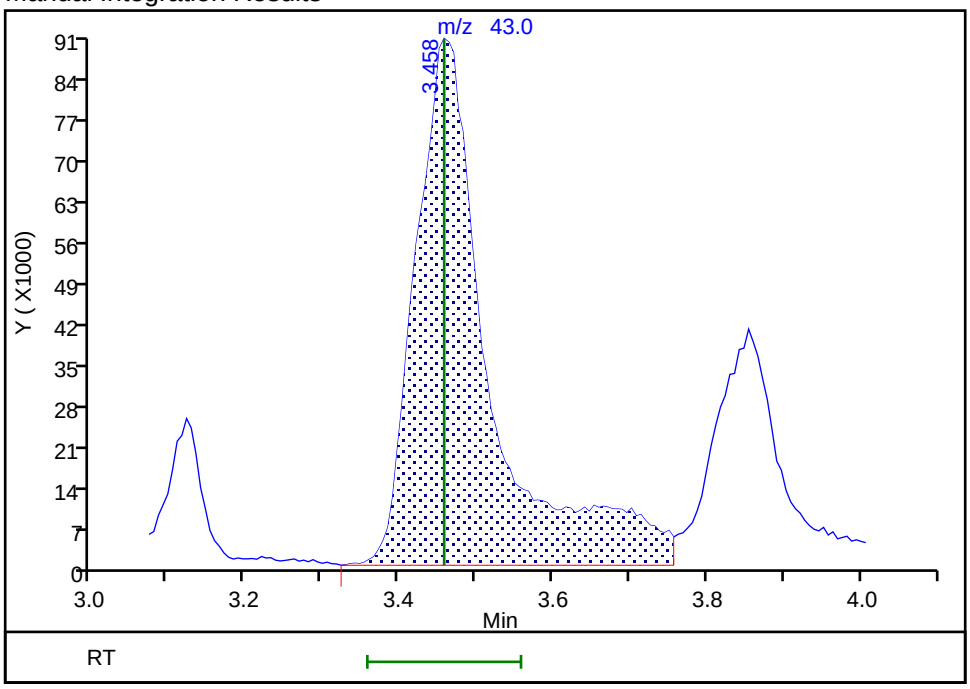
Processing Integration Results

RT: 3.46
Area: 532302
Amount: 74.545257
Amount Units: ug/l



Manual Integration Results

RT: 3.46
Area: 611780
Amount: 84.635656
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:42:49
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

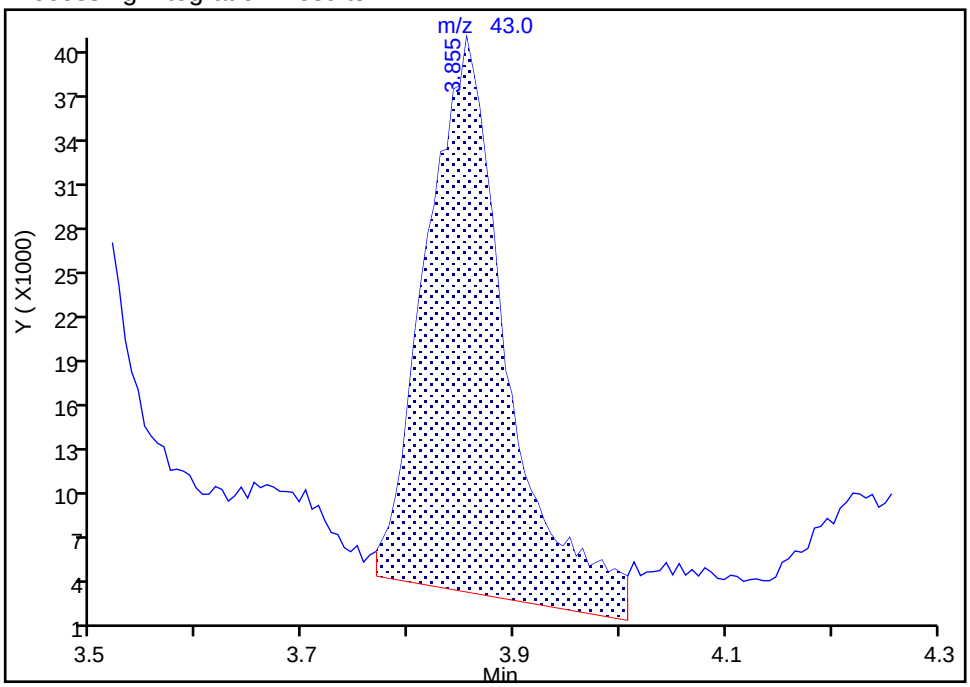
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D				
Injection Date:	16-Aug-2022 19:17:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

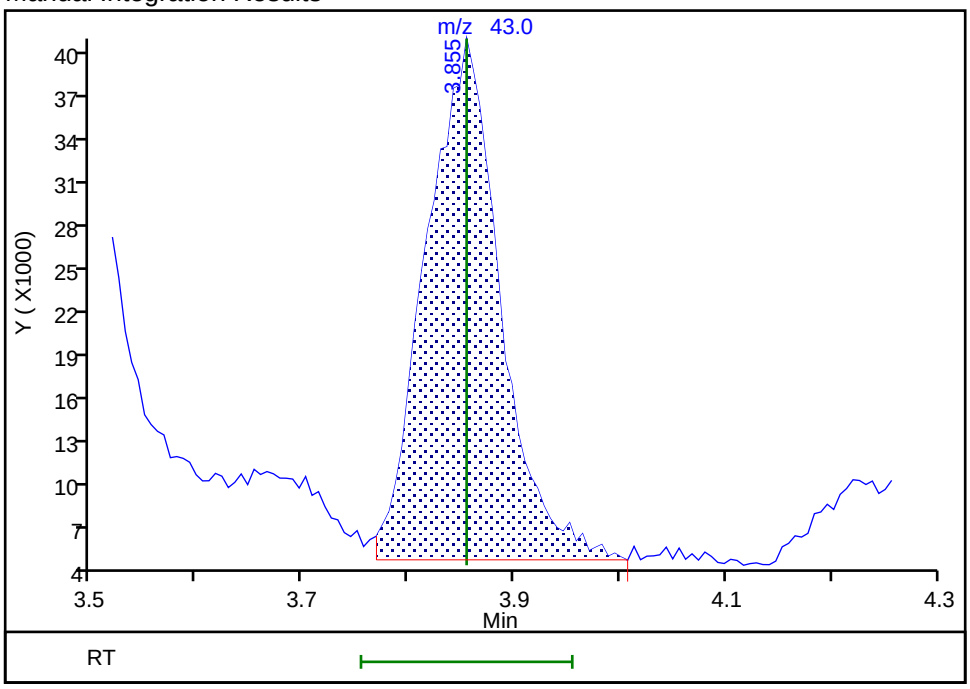
Processing Integration Results

RT: 3.85
Area: 201688
Amount: 8.683090
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 179295
Amount: 7.998684
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:43:32

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

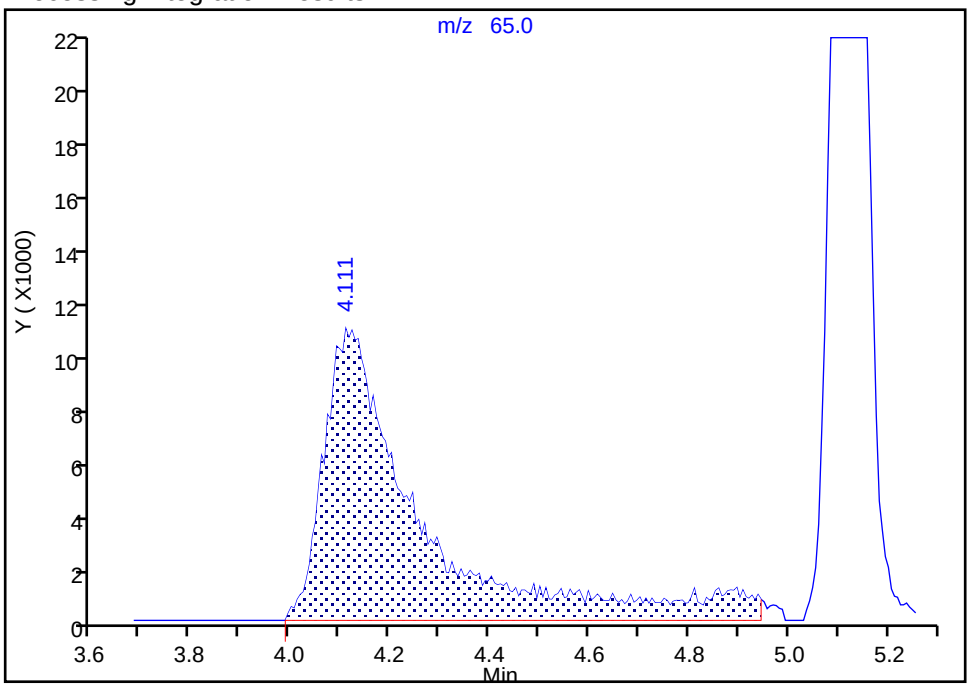
Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D
Injection Date: 16-Aug-2022 19:17:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

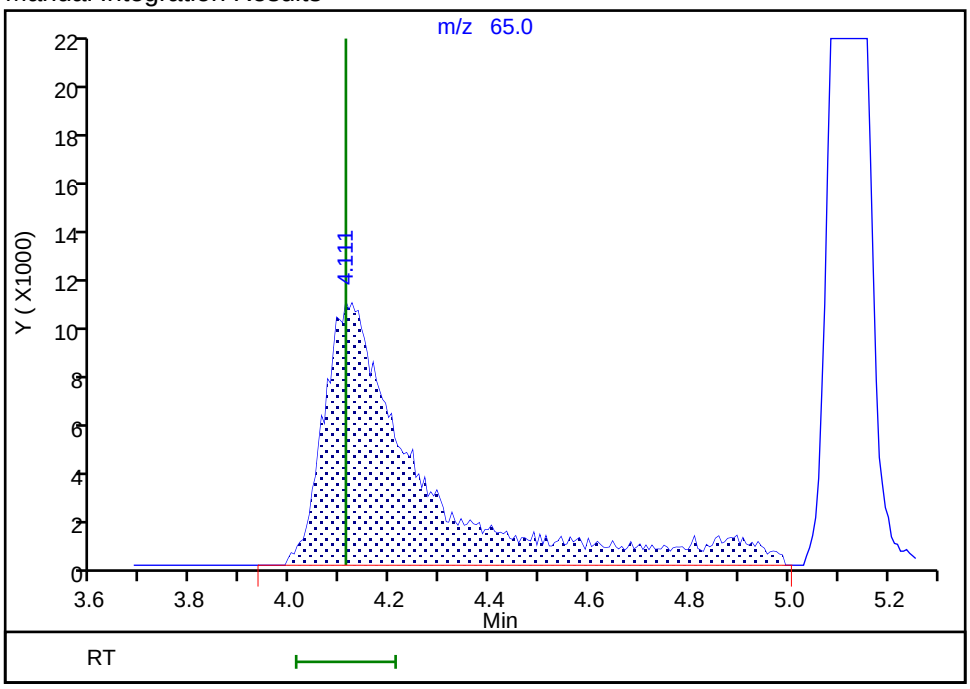
Processing Integration Results

RT: 4.11
Area: 141267
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.11
Area: 142576
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:43:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 16-Aug-2022 19:38:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-019
Misc. Info.: IC STD7
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:49:00 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:46:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.892	0.006	99	1418980	25.0	22.9	
5 Chloromethane	50	2.093	2.087	0.006	99	1527322	25.0	21.8	
6 Vinyl chloride	62	2.203	2.202	0.001	98	1653785	25.0	23.1	
7 Butadiene	39	2.215	2.215	0.000	93	1383220	25.0	20.4	
9 Bromomethane	94	2.526	2.526	0.000	90	1340018	25.0	23.8	
10 Chloroethane	64	2.605	2.599	0.006	100	1011950	25.0	23.7	
11 Dichlorofluoromethane	67	2.837	2.836	0.001	97	2394155	25.0	23.0	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	98	2300799	25.0	23.4	
13 Ethyl ether	59	3.123	3.123	0.000	89	1130526	25.0	24.8	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.221	0.006	89	1564197	25.0	22.5	
17 Acrolein	56	3.294	3.288	0.006	100	7837578	1250.0	1180.1	
18 1,1-Dichloroethene	96	3.422	3.416	0.006	96	1255687	25.0	24.4	
20 Acetone	43	3.465	3.458	0.007	100	1587280	250.0	217.9	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.464	0.007	90	1192898	25.0	23.8	
21 Iodomethane	142	3.605	3.605	0.000	98	2358489	25.0	24.2	
22 Ethyl bromide	108	3.635	3.629	0.006	98	1168692	25.0	24.7	
24 Isopropyl alcohol	45	3.708	3.690	0.018	29	553111	500.0	419.0	
23 Carbon disulfide	76	3.702	3.702	0.000	99	3472934	25.0	27.7	
25 Methyl acetate	43	3.855	3.855	0.000	96	495870	25.0	21.9	M
27 3-Chloro-1-propene	41	3.879	3.873	0.006	90	1714730	25.0	24.7	
29 Methylene Chloride	84	4.062	4.056	0.006	87	1383829	25.0	24.3	
* 30 t-Butyl alcohol-d10 (IS)	65	4.147	4.111	0.036	72	143695	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.257	4.245	0.012	99	1120844	500.0	440.1	
32 Acrylonitrile	53	4.391	4.391	0.000	98	585945	62.5	60.6	
33 Methyl tert-butyl ether	73	4.452	4.446	0.006	94	3535898	25.0	24.1	
34 trans-1,2-Dichloroethene	96	4.458	4.458	0.000	97	1463454	25.0	24.3	
35 Hexane	57	4.885	4.885	0.000	92	1547621	25.0	23.6	
37 1,1-Dichloroethane	63	5.129	5.123	0.006	96	2399785	25.0	24.6	
38 Isopropyl ether	45	5.190	5.184	0.006	93	3956491	25.0	24.5	
39 2-Chloro-1,3-butadiene	53	5.239	5.232	0.007	91	1923095	25.0	24.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	97	4048605	25.0	24.4	
41 2-Butanone (MEK)	43	5.940	5.933	0.007	99	3350978	250.0	232.8	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	80	1611946	25.0	24.5	
43 2,2-Dichloropropane	77	5.982	5.976	0.006	88	1962445	25.0	24.8	
45 Propionitrile	54	6.037	6.025	0.012	99	1672892	500.0	490.6	
S 47 1,2-Dichloroethene, Total	100				0			48.9	
48 Methacrylonitrile	67	6.245	6.238	0.006	93	3743786	250.0	243.8	
49 Chlorobromomethane	128	6.299	6.293	0.006	86	784323	25.0	24.9	
50 Tetrahydrofuran	71	6.312	6.299	0.013	75	507621	125.0	118.8	
51 Chloroform	83	6.452	6.452	0.000	92	2557412	25.0	24.4	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.665	0.006	94	598690	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.677	6.671	0.006	98	2280597	25.0	25.0	
54 Cyclohexane	56	6.775	6.769	0.006	88	2007902	25.0	24.2	
56 Carbon tetrachloride	117	6.885	6.884	0.001	96	2033131	25.0	25.9	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	96	1956120	25.0	24.1	
58 Isobutyl alcohol	41	7.086	7.073	0.013	94	1033218	1250.0	1205.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.116	0.012	92	124380	10.0	9.87	
60 Benzene	78	7.153	7.153	0.000	96	5793032	25.0	24.2	
61 1,2-Dichloroethane	62	7.226	7.220	0.006	98	1613440	25.0	23.7	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	98	3891489	25.0	24.7	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2388919	10.0	10.0	
65 n-Heptane	43	7.574	7.573	0.001	88	1598920	25.0	23.3	
67 n-Butanol	56	7.976	7.970	0.006	87	1757161	2187.5	2364.4	
68 Trichloroethene	95	8.043	8.043	0.000	96	1634955	25.0	24.5	
69 Methylcyclohexane	83	8.348	8.341	0.007	89	2441489	25.0	24.6	
70 1,2-Dichloropropane	63	8.378	8.372	0.006	93	1450984	25.0	24.8	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	96	2380841	25.0	25.4	
72 Methyl methacrylate	69	8.464	8.463	0.001	88	772725	25.0	25.8	
73 Dibromomethane	93	8.482	8.482	0.000	93	799889	25.0	24.9	
74 1,4-Dioxane	88	8.512	8.512	0.000	84	191177	1250.0	1128.8	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	1870494	25.0	26.6	
77 2-Nitropropane	41	9.006	9.000	0.006	98	966836	125.0	143.8	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	1603431	25.0	25.3	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	97	2381867	25.0	27.2	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	95	9067989	250.0	239.4	
$ 83 Toluene-d8 (Surr)	98	9.598	9.591	0.007	93	2421715	10.0	10.0	
84 Toluene	92	9.677	9.671	0.007	98	3979367	25.0	24.3	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	91	2050452	25.0	28.1	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	1690447	25.0	26.9	
S 105 1,3-Dichloropropene, Total	100				0			55.3	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	1173341	25.0	24.4	
107 Tetrachloroethene	166	10.232	10.231	0.001	98	1975922	25.0	24.0	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	1950083	25.0	24.7	
109 2-Hexanone	43	10.372	10.365	0.007	94	6963294	250.0	252.1	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	1531577	25.0	29.1	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	1193896	25.0	25.2	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1887193	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	93	2167500	25.0	23.6	
115 Chlorobenzene	112	11.097	11.097	0.000	98	4743809	25.0	23.9	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	96	1716072	25.0	27.0	
116 Ethylbenzene	91	11.189	11.189	0.001	98	7749772	25.0	24.4	
S 118 Xylenes, Total	106				0			74.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	99	6338596	50.0	49.7	
120 o-Xylene	106	11.634	11.634	0.000	95	3147850	25.0	24.9	
121 Styrene	104	11.652	11.652	0.000	94	5405404	25.0	25.3	
122 Bromoform	173	11.804	11.804	0.000	98	960530	25.0	32.4	
123 Isopropylbenzene	105	11.939	11.938	0.000	95	7949878	25.0	24.6	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	95	899968	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	1506637	25.0	24.8	
128 Bromobenzene	156	12.195	12.194	0.001	94	2107684	25.0	24.1	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	91	3873432	250.0	278.1	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	432760	25.0	24.8	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	9106742	25.0	23.8	
132 2-Chlorotoluene	126	12.341	12.341	0.000	98	2040219	25.0	24.2	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	95	7032261	25.0	24.5	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	2115951	25.0	24.1	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	1564947	25.0	23.7	
136 Pentachloroethane	167	12.676	12.676	0.000	91	1382400	25.0	29.2	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	7305524	25.0	24.7	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	8733955	25.0	24.3	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	98	4338435	25.0	24.0	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	8077811	25.0	24.6	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	92	1138282	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	95	4395359	25.0	23.2	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	3332795	25.0	24.6	
144 Benzyl chloride	126	13.060	13.060	0.000	98	629836	25.0	26.1	
145 p-Diethylbenzene	119	13.121	13.121	0.000	92	4853558	25.0	24.9	
146 n-Butylbenzene	92	13.207	13.206	0.001	97	3911257	25.0	24.4	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	4071402	25.0	24.0	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	92	256886	25.0	28.7	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	3481934	25.0	23.9	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	3251198	25.0	23.8	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	1558972	25.0	24.0	
153 Naphthalene	128	14.511	14.511	0.000	97	5704671	25.0	24.6	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	2876206	25.0	23.8	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	93	3765795	25.0	25.1	
166 Pentane	43	2.922	2.916	0.006	96	1542367	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added: 25.00	Units: uL	
MSV_29_826ISS_00037	Amount Added: 1.00	Units: uL	Run Reagent

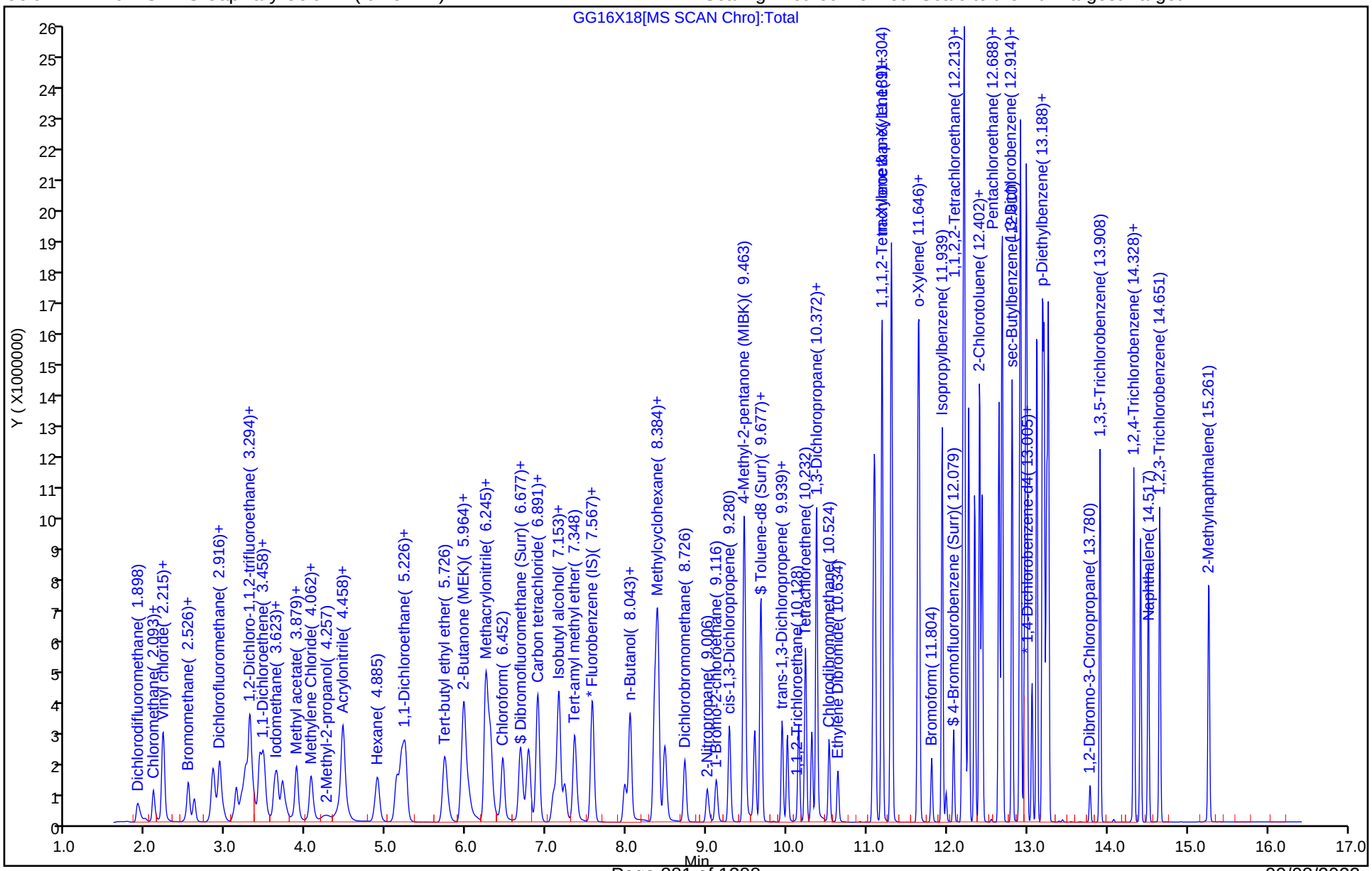
Report Date: 30-Aug-2022 10:49:01 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Injection Date:	16-Aug-2022 19:38:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std7			Worklist Smp#:	19
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

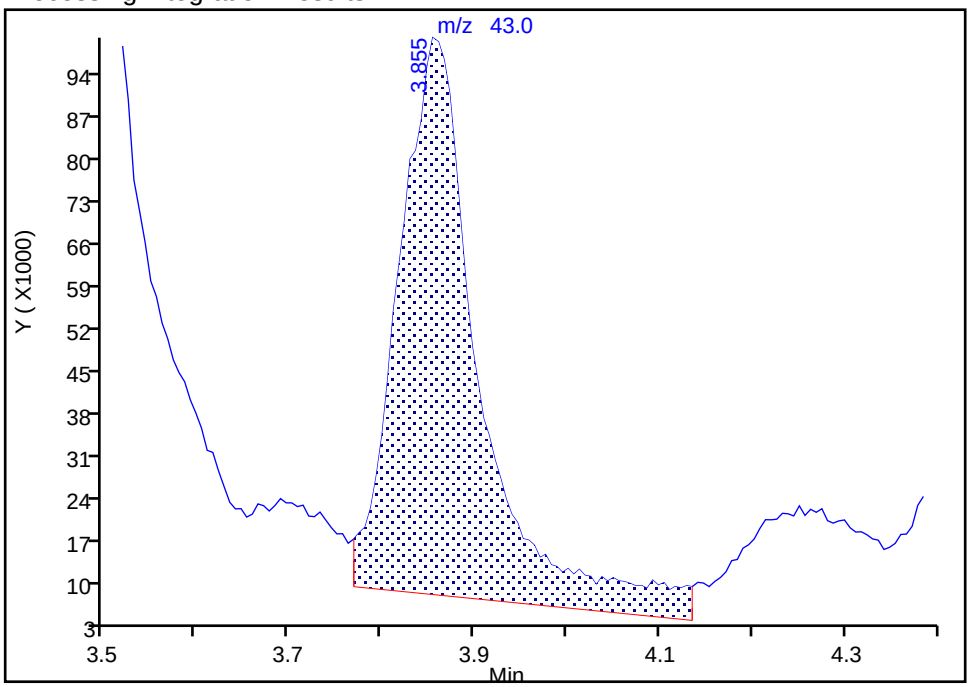
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Injection Date:	16-Aug-2022 19:38:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

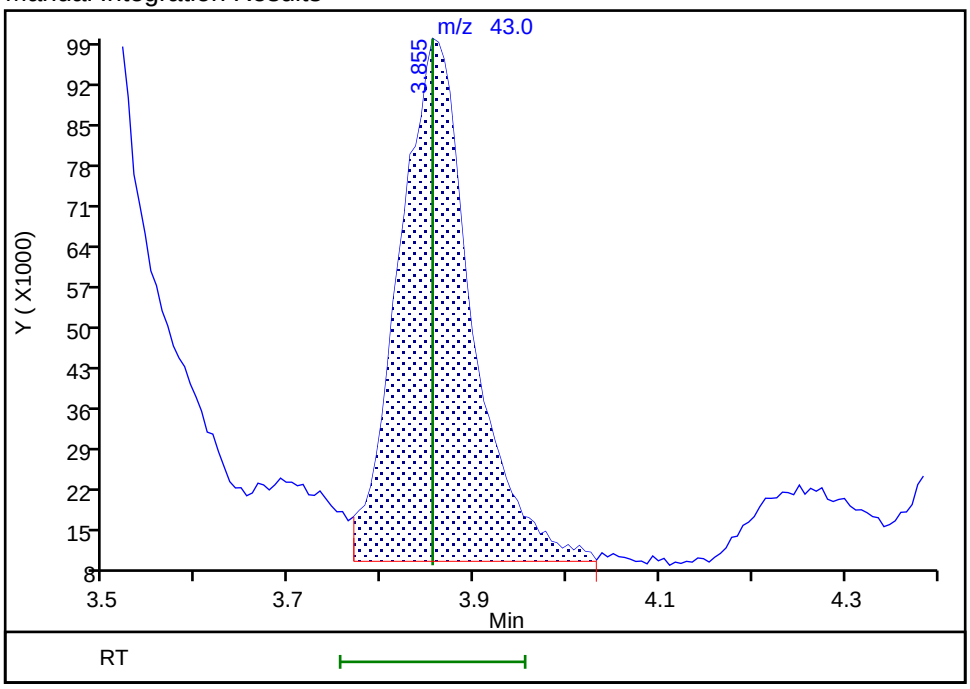
Processing Integration Results

RT: 3.85
Area: 562827
Amount: 26.460467
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 495870
Amount: 21.949416
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:45:04
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

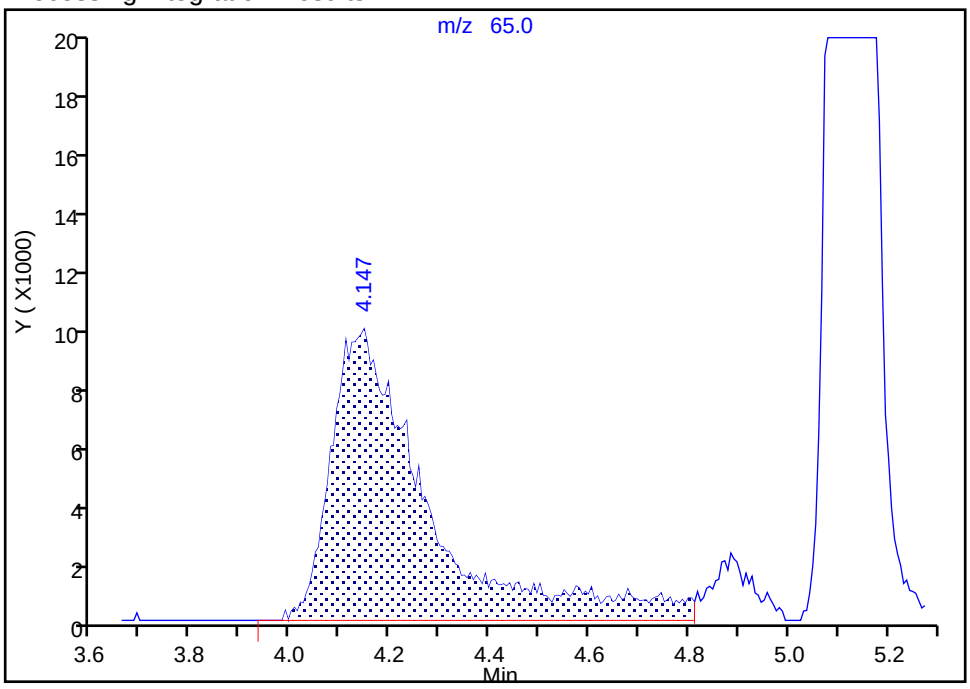
Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D
Injection Date: 16-Aug-2022 19:38:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

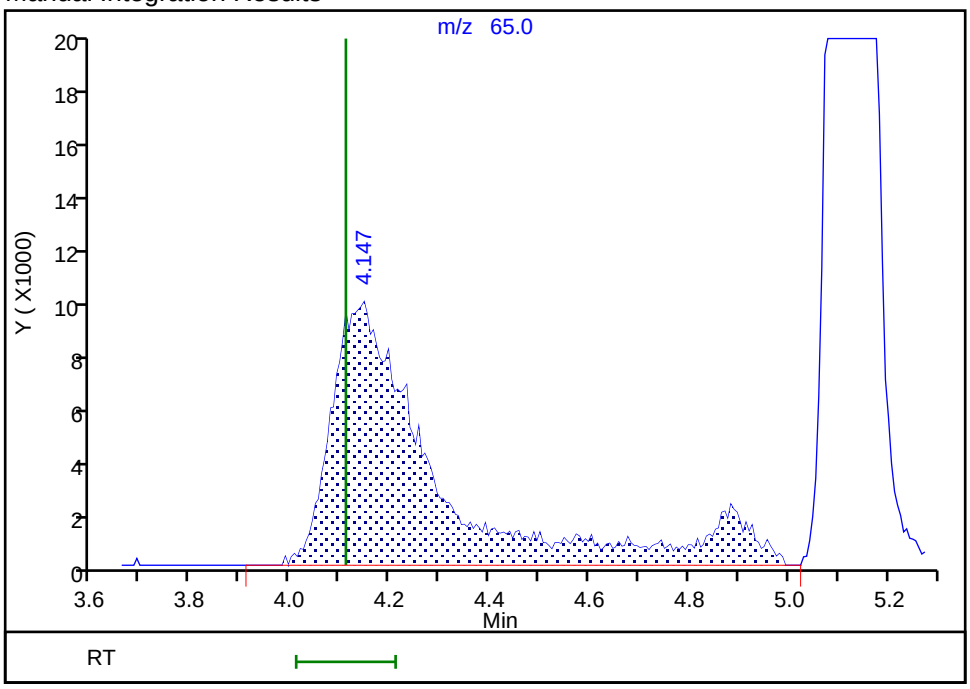
Processing Integration Results

RT: 4.15
Area: 131305
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.15
Area: 143695
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:45:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

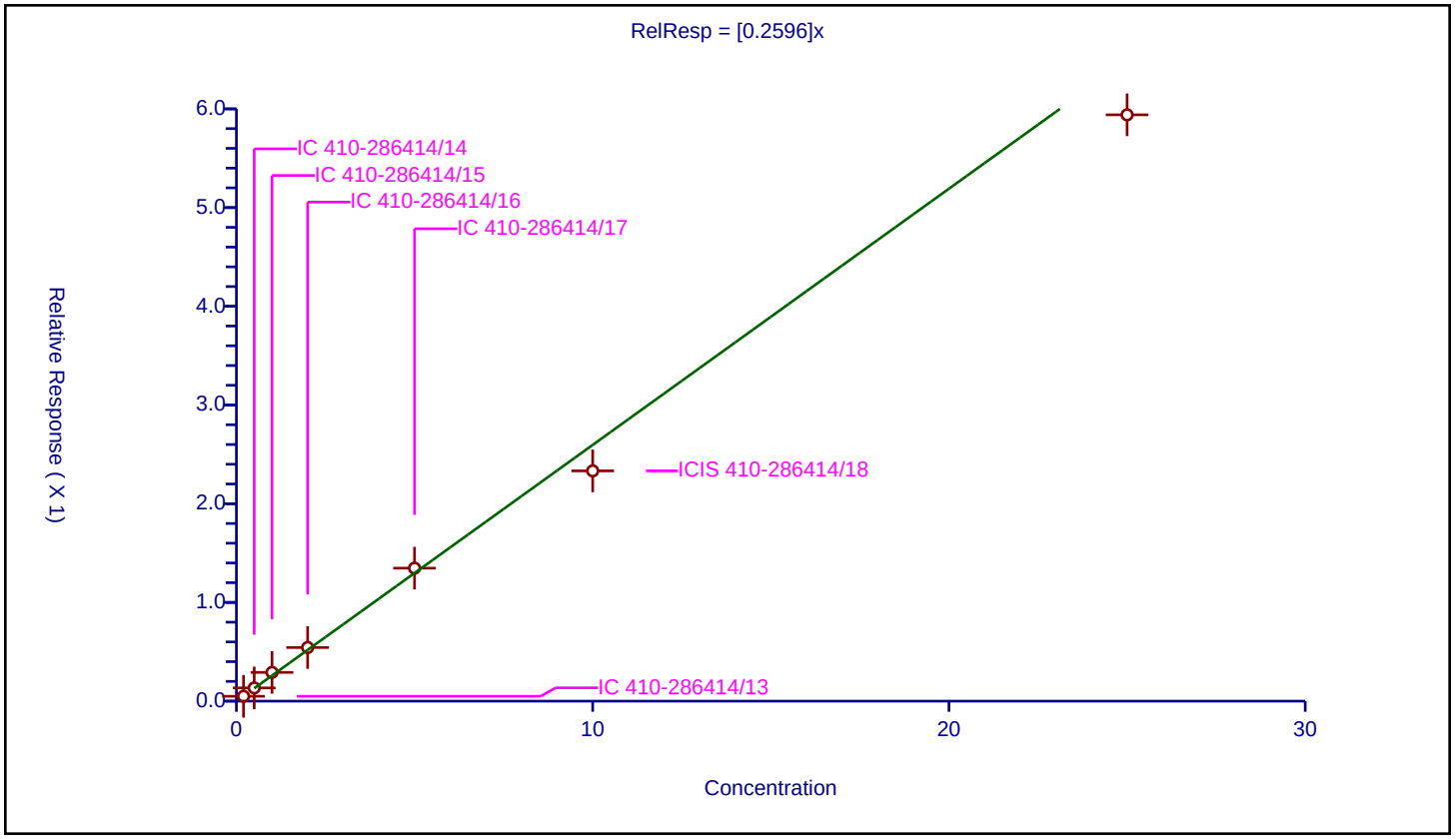
Curve Coefficients

Intercept:	0
Slope:	0.2596

Error Coefficients

Standard Error:	636000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.049137	10.0	2204666.0	0.245683	Y
2	IC 410-286414/14	0.5	0.133966	10.0	2229222.0	0.267932	Y
3	IC 410-286414/15	1.0	0.29135	10.0	2229967.0	0.29135	Y
4	IC 410-286414/16	2.0	0.543272	10.0	2244586.0	0.271636	Y
5	IC 410-286414/17	5.0	1.347317	10.0	2296832.0	0.269463	Y
6	ICIS 410-286414/18	10.0	2.33265	10.0	2328270.0	0.233265	Y
7	IC 410-286414/19	25.0	5.939841	10.0	2388919.0	0.237594	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

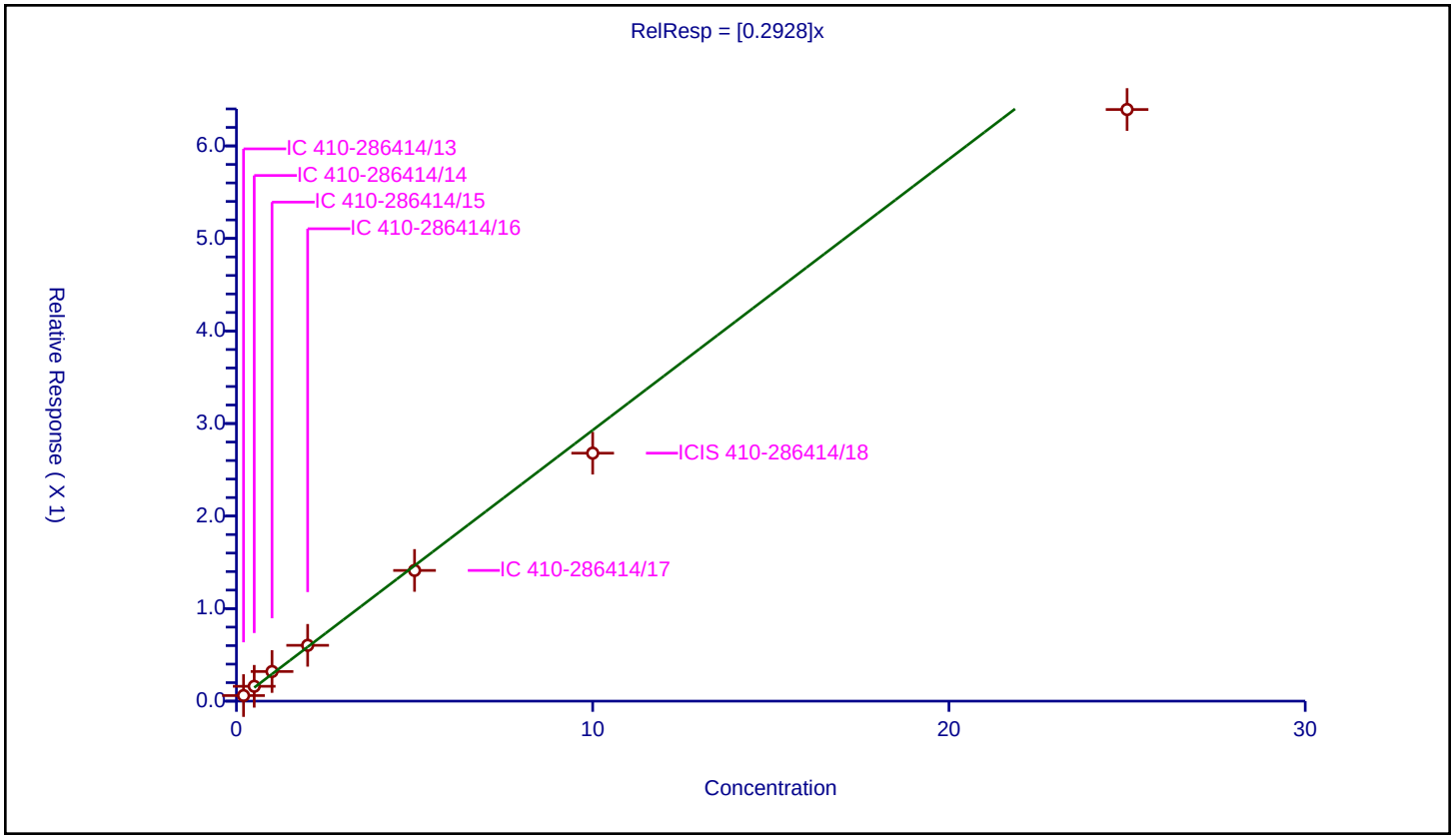
Curve Coefficients

Intercept:	0
Slope:	0.2928

Error Coefficients

Standard Error:	689000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.060191	10.0	2204666.0	0.300953	Y
2	IC 410-286414/14	0.5	0.160428	10.0	2229222.0	0.320856	Y
3	IC 410-286414/15	1.0	0.32022	10.0	2229967.0	0.32022	Y
4	IC 410-286414/16	2.0	0.603082	10.0	2244586.0	0.301541	Y
5	IC 410-286414/17	5.0	1.412437	10.0	2296832.0	0.282487	Y
6	ICIS 410-286414/18	10.0	2.679784	10.0	2328270.0	0.267978	Y
7	IC 410-286414/19	25.0	6.39336	10.0	2388919.0	0.255734	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

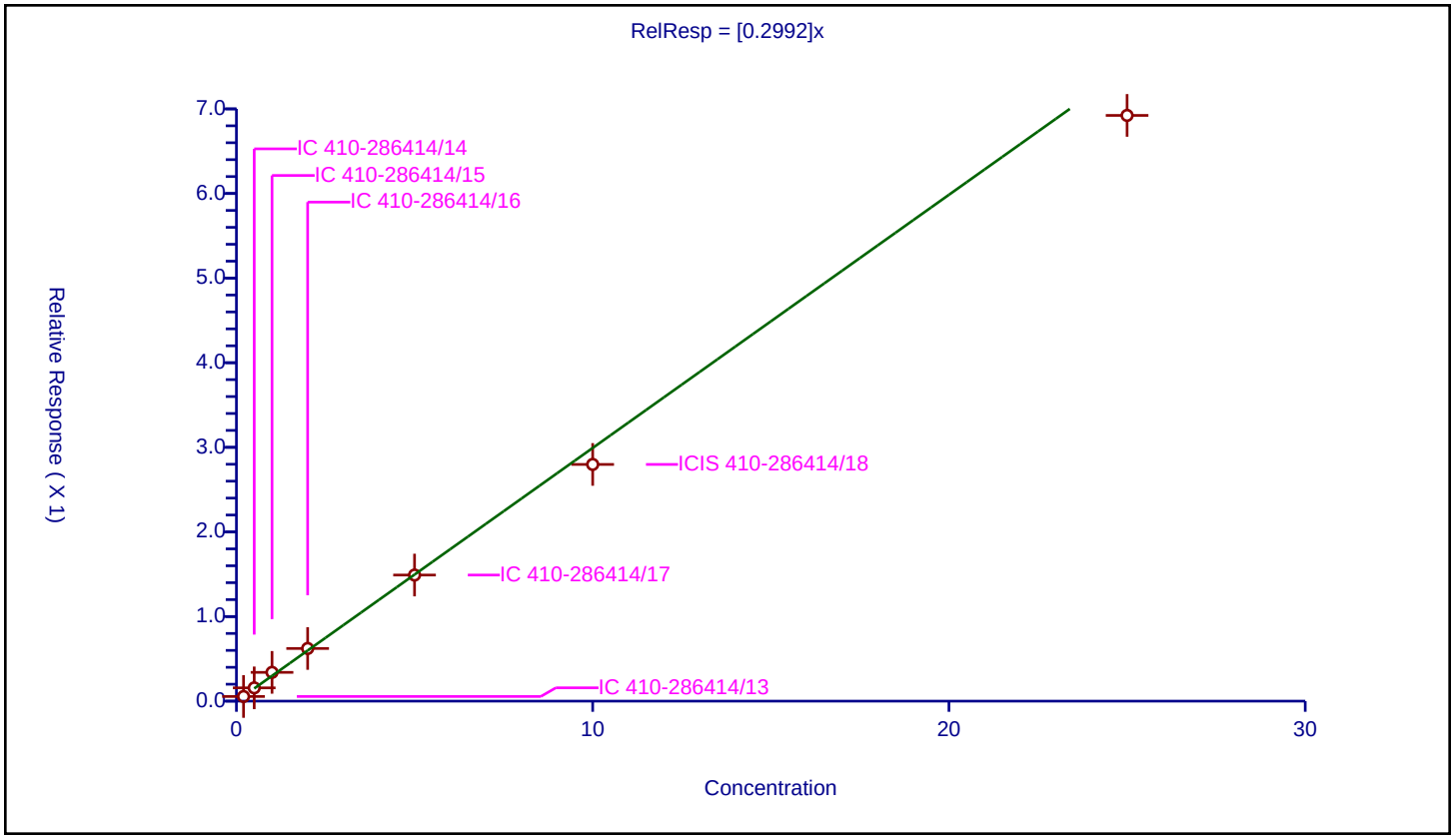
Curve Coefficients

Intercept:	0
Slope:	0.2992

Error Coefficients

Standard Error:	742000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.055002	10.0	2204666.0	0.275008	Y
2	IC 410-286414/14	0.5	0.156786	10.0	2229222.0	0.313571	Y
3	IC 410-286414/15	1.0	0.340036	10.0	2229967.0	0.340036	Y
4	IC 410-286414/16	2.0	0.622632	10.0	2244586.0	0.311316	Y
5	IC 410-286414/17	5.0	1.490453	10.0	2296832.0	0.298091	Y
6	ICIS 410-286414/18	10.0	2.797635	10.0	2328270.0	0.279764	Y
7	IC 410-286414/19	25.0	6.922734	10.0	2388919.0	0.276909	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

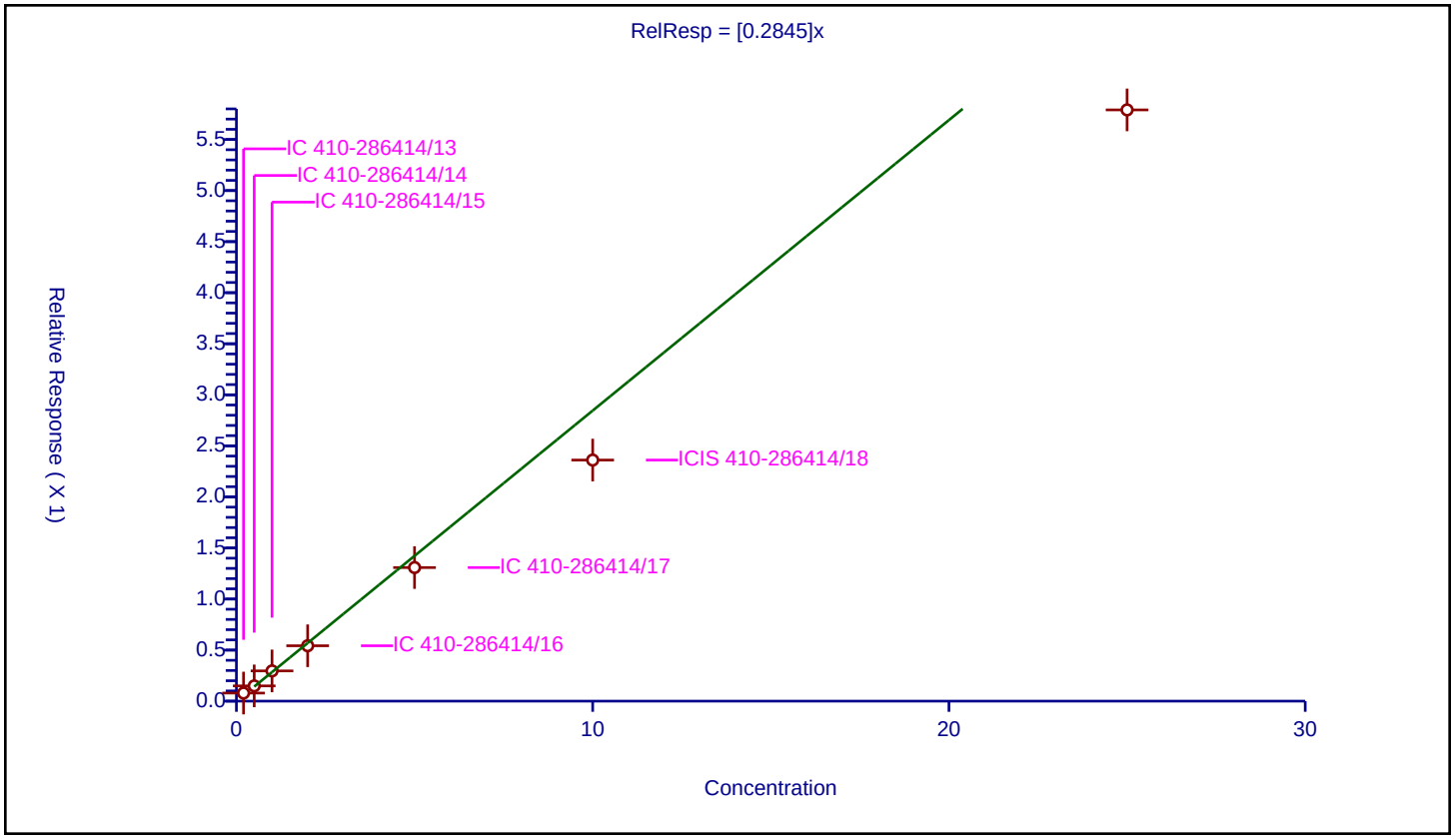
Curve Coefficients

Intercept:	0
Slope:	0.2845

Error Coefficients

Standard Error:	623000
Relative Standard Error:	19.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.931

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.079236	10.0	2204666.0	0.396182	Y
2	IC 410-286414/14	0.5	0.149339	10.0	2229222.0	0.298678	Y
3	IC 410-286414/15	1.0	0.296264	10.0	2229967.0	0.296264	Y
4	IC 410-286414/16	2.0	0.542314	10.0	2244586.0	0.271157	Y
5	IC 410-286414/17	5.0	1.308333	10.0	2296832.0	0.261667	Y
6	ICIS 410-286414/18	10.0	2.361011	10.0	2328270.0	0.236101	Y
7	IC 410-286414/19	25.0	5.79015	10.0	2388919.0	0.231606	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

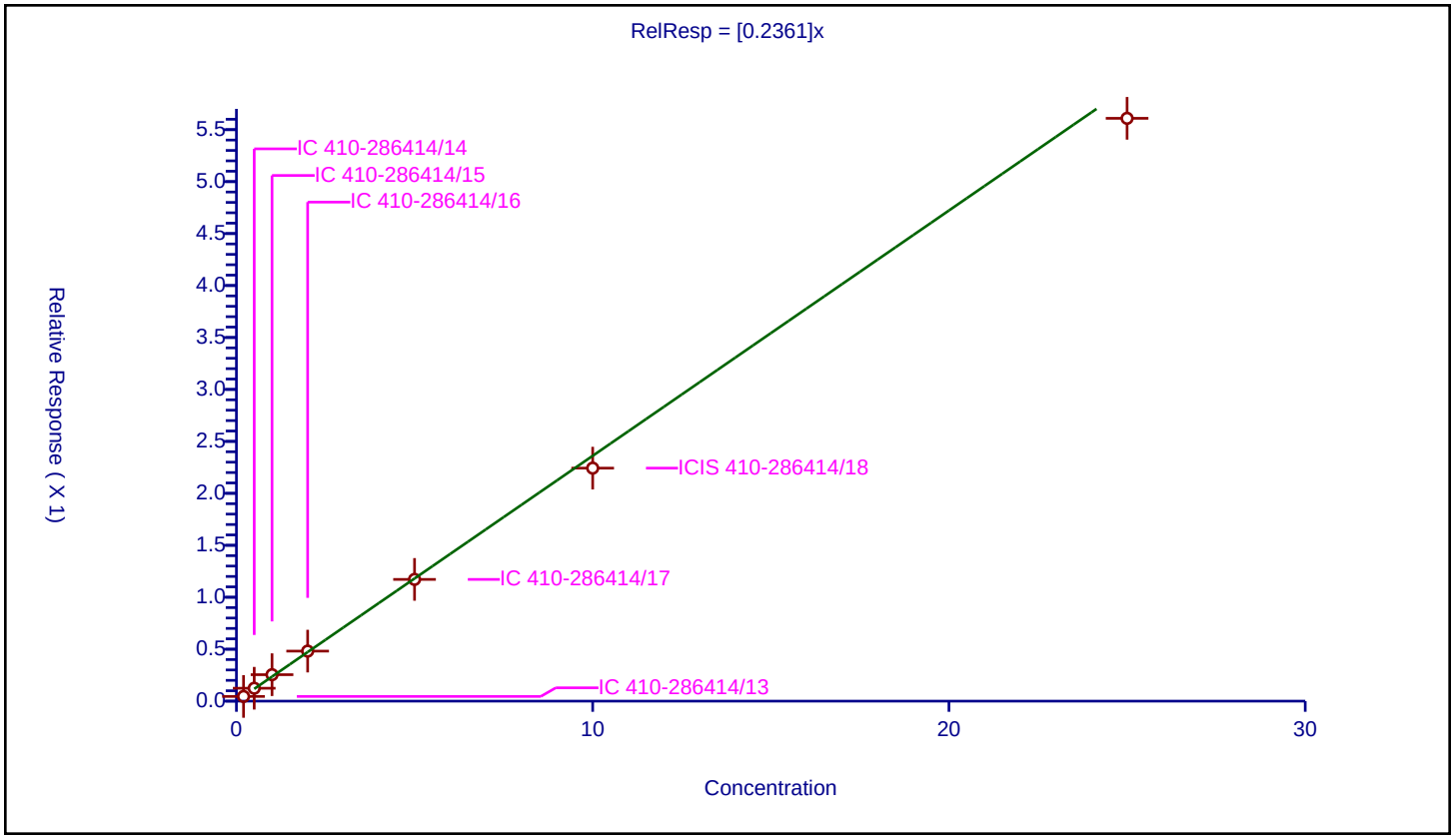
Curve Coefficients

Intercept:	0
Slope:	0.2361

Error Coefficients

Standard Error:	600000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.045222	10.0	2204666.0	0.226111	Y
2	IC 410-286414/14	0.5	0.124129	10.0	2229222.0	0.248257	Y
3	IC 410-286414/15	1.0	0.254609	10.0	2229967.0	0.254609	Y
4	IC 410-286414/16	2.0	0.481594	10.0	2244586.0	0.240797	Y
5	IC 410-286414/17	5.0	1.17157	10.0	2296832.0	0.234314	Y
6	ICIS 410-286414/18	10.0	2.242657	10.0	2328270.0	0.224266	Y
7	IC 410-286414/19	25.0	5.609307	10.0	2388919.0	0.224372	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

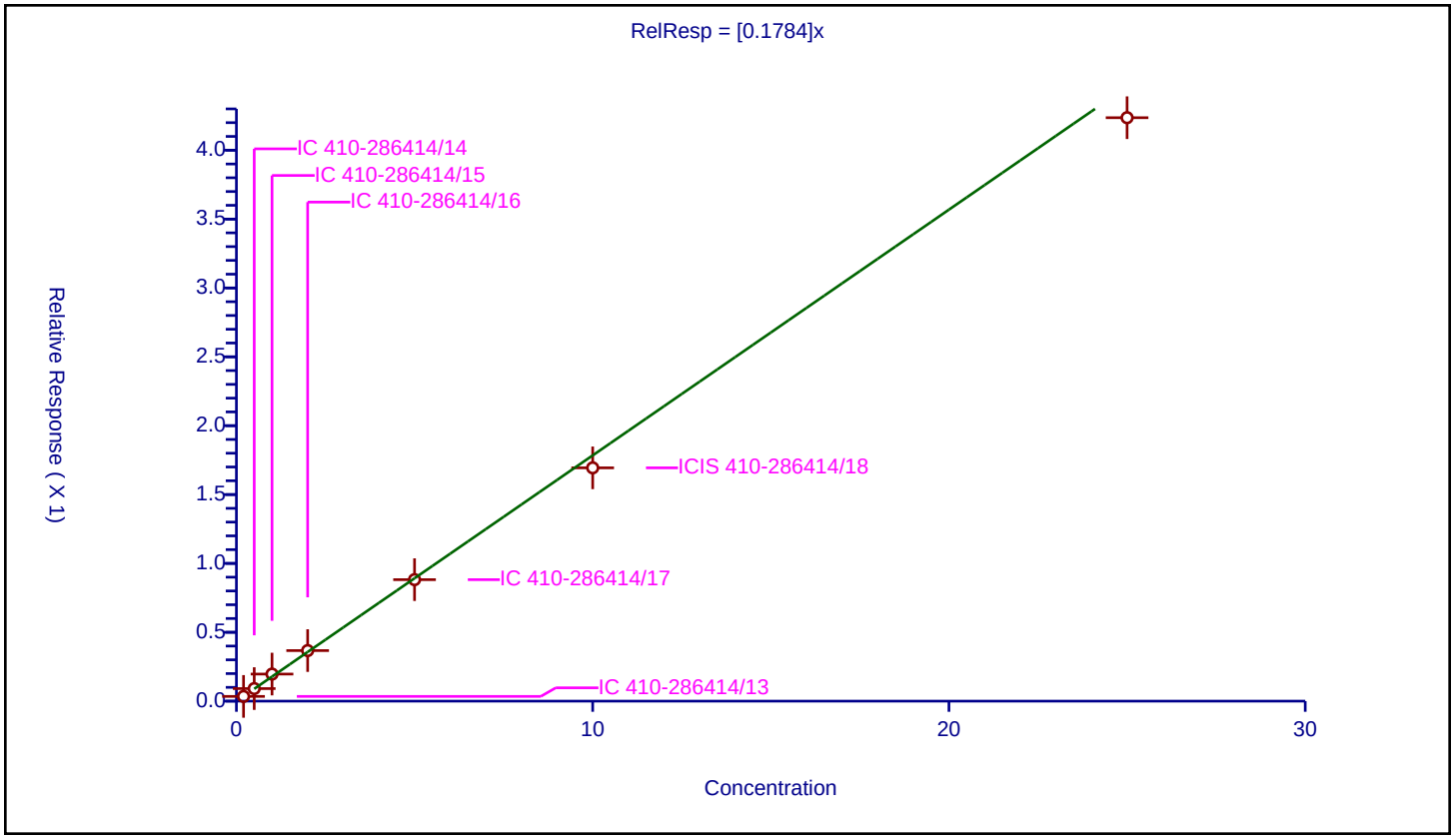
Curve Coefficients

Intercept:	0
Slope:	0.1784

Error Coefficients

Standard Error:	453000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.034227	10.0	2204666.0	0.171137	Y
2	IC 410-286414/14	0.5	0.091198	10.0	2229222.0	0.182395	Y
3	IC 410-286414/15	1.0	0.196546	10.0	2229967.0	0.196546	Y
4	IC 410-286414/16	2.0	0.367186	10.0	2244586.0	0.183593	Y
5	IC 410-286414/17	5.0	0.882145	10.0	2296832.0	0.176429	Y
6	ICIS 410-286414/18	10.0	1.693919	10.0	2328270.0	0.169392	Y
7	IC 410-286414/19	25.0	4.236016	10.0	2388919.0	0.169441	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

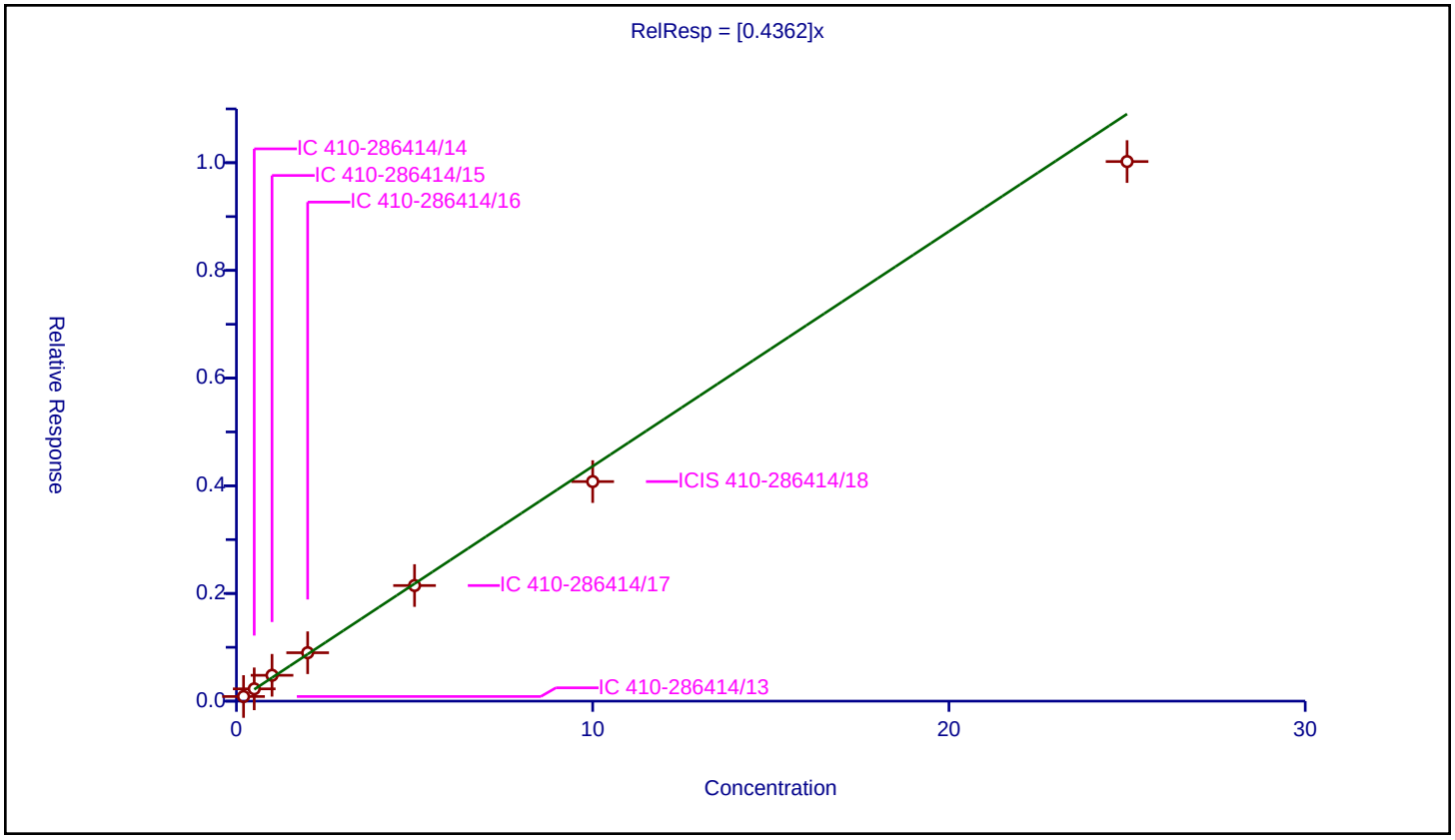
Curve Coefficients

Intercept:	0
Slope:	0.4362

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.085859	10.0	2204666.0	0.429294	Y
2	IC 410-286414/14	0.5	0.228429	10.0	2229222.0	0.456859	Y
3	IC 410-286414/15	1.0	0.479994	10.0	2229967.0	0.479994	Y
4	IC 410-286414/16	2.0	0.899017	10.0	2244586.0	0.449508	Y
5	IC 410-286414/17	5.0	2.147044	10.0	2296832.0	0.429409	Y
6	ICIS 410-286414/18	10.0	4.077714	10.0	2328270.0	0.407771	Y
7	IC 410-286414/19	25.0	10.021918	10.0	2388919.0	0.400877	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

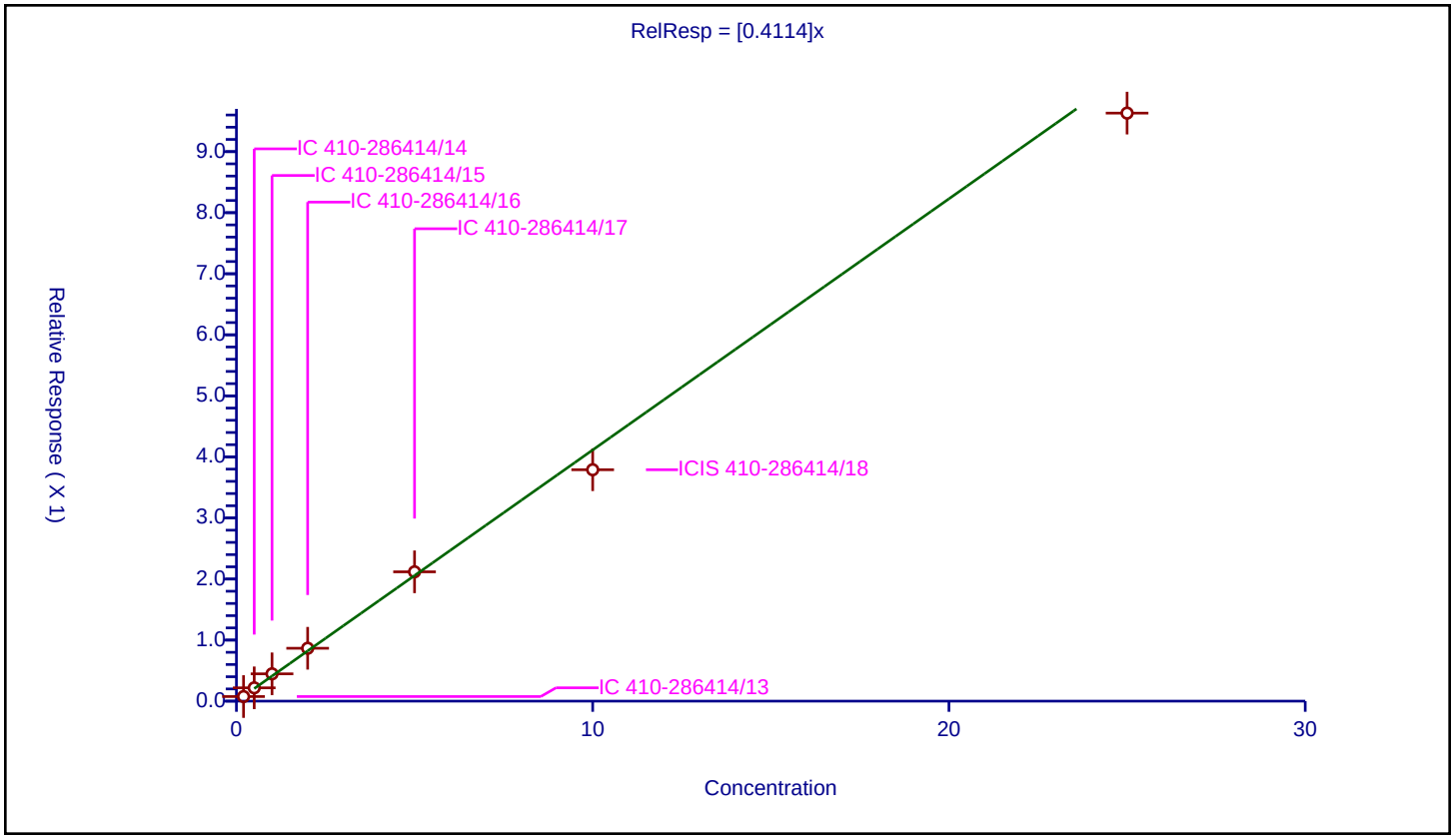
Curve Coefficients

Intercept:	0
Slope:	0.4114

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.075064	10.0	2204666.0	0.375318	Y
2	IC 410-286414/14	0.5	0.217919	10.0	2229222.0	0.435838	Y
3	IC 410-286414/15	1.0	0.447545	10.0	2229967.0	0.447545	Y
4	IC 410-286414/16	2.0	0.866075	10.0	2244586.0	0.433038	Y
5	IC 410-286414/17	5.0	2.118057	10.0	2296832.0	0.423611	Y
6	ICIS 410-286414/18	10.0	3.789926	10.0	2328270.0	0.378993	Y
7	IC 410-286414/19	25.0	9.63113	10.0	2388919.0	0.385245	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

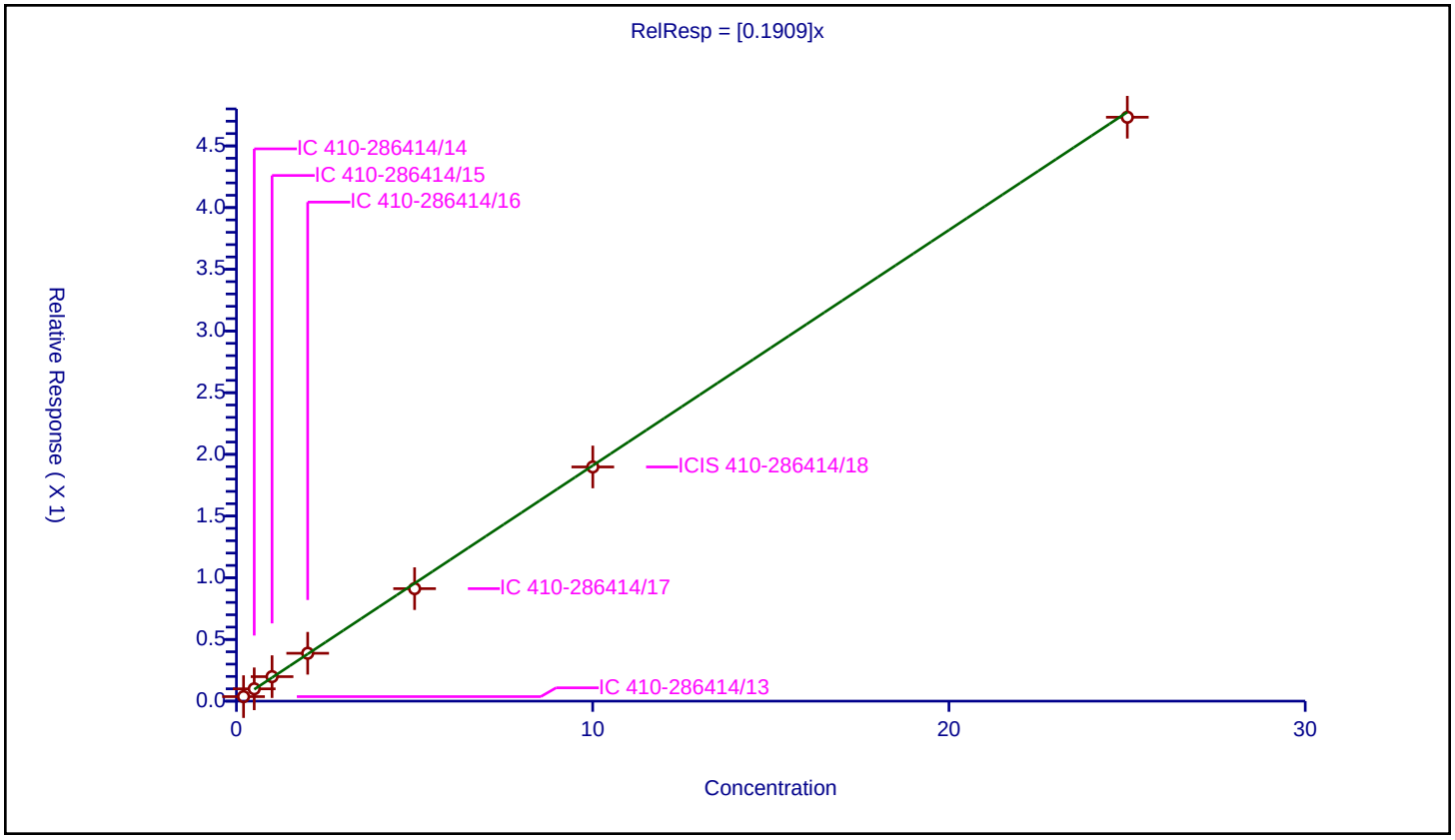
Curve Coefficients

Intercept:	0
Slope:	0.1909

Error Coefficients

Standard Error:	505000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.200057	0.036663	10.0	2204666.0	0.183263	Y
2	IC 410-286414/14	0.500143	0.099752	10.0	2229222.0	0.199448	Y
3	IC 410-286414/15	1.000286	0.198451	10.0	2229967.0	0.198395	Y
4	IC 410-286414/16	2.000572	0.387933	10.0	2244586.0	0.193911	Y
5	IC 410-286414/17	5.00143	0.911795	10.0	2296832.0	0.182307	Y
6	ICIS 410-286414/18	10.00286	1.89792	10.0	2328270.0	0.189738	Y
7	IC 410-286414/19	25.00715	4.732375	10.0	2388919.0	0.189241	Y



Calibration / 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

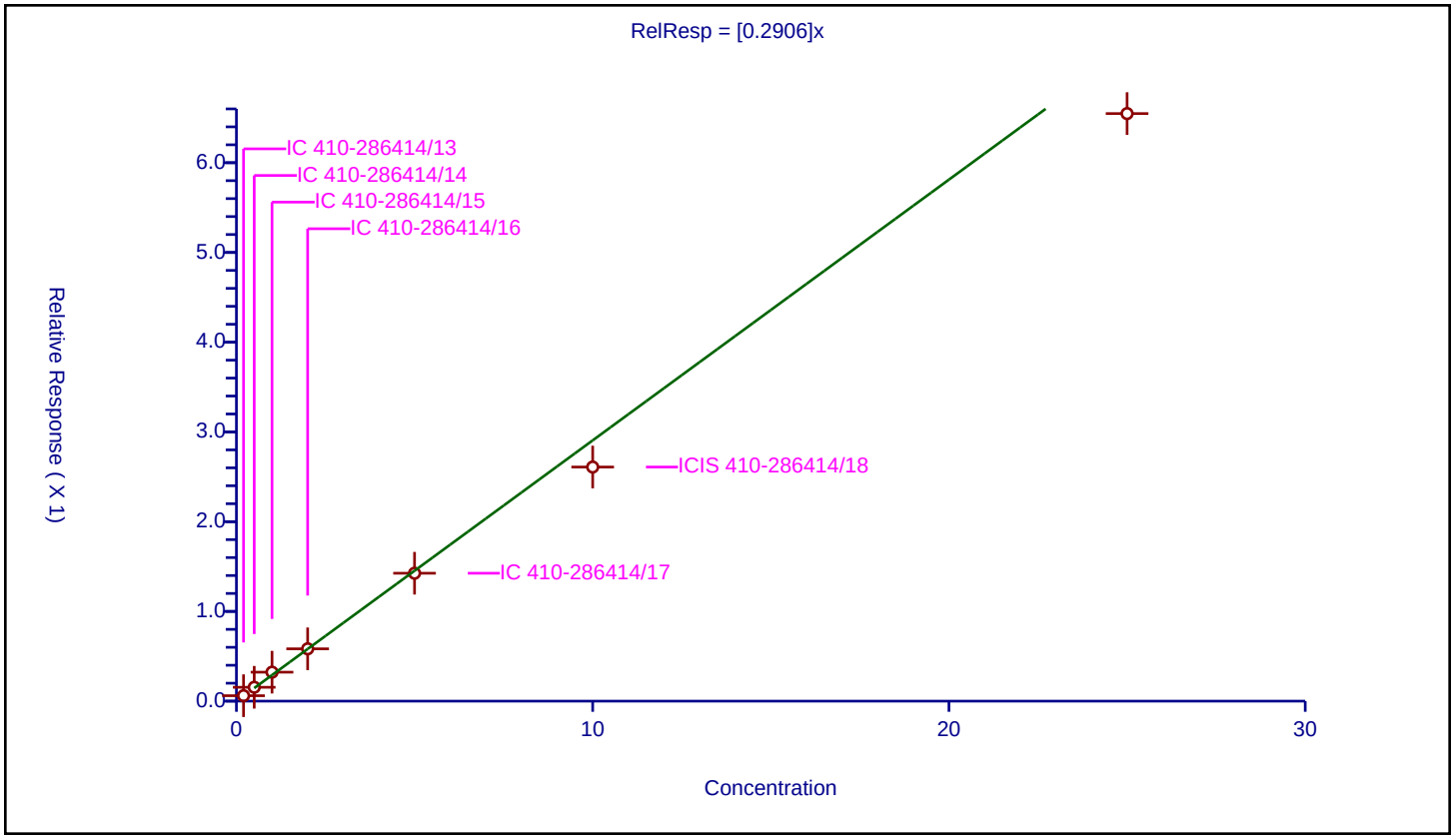
Curve Coefficients

Intercept:	0
Slope:	0.2906

Error Coefficients

Standard Error:	701000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.06064	10.0	2204666.0	0.303198	Y
2	IC 410-286414/14	0.5	0.154395	10.0	2229222.0	0.308789	Y
3	IC 410-286414/15	1.0	0.322677	10.0	2229967.0	0.322677	Y
4	IC 410-286414/16	2.0	0.582981	10.0	2244586.0	0.29149	Y
5	IC 410-286414/17	5.0	1.425555	10.0	2296832.0	0.285111	Y
6	ICIS 410-286414/18	10.0	2.608735	10.0	2328270.0	0.260874	Y
7	IC 410-286414/19	25.0	6.547719	10.0	2388919.0	0.261909	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

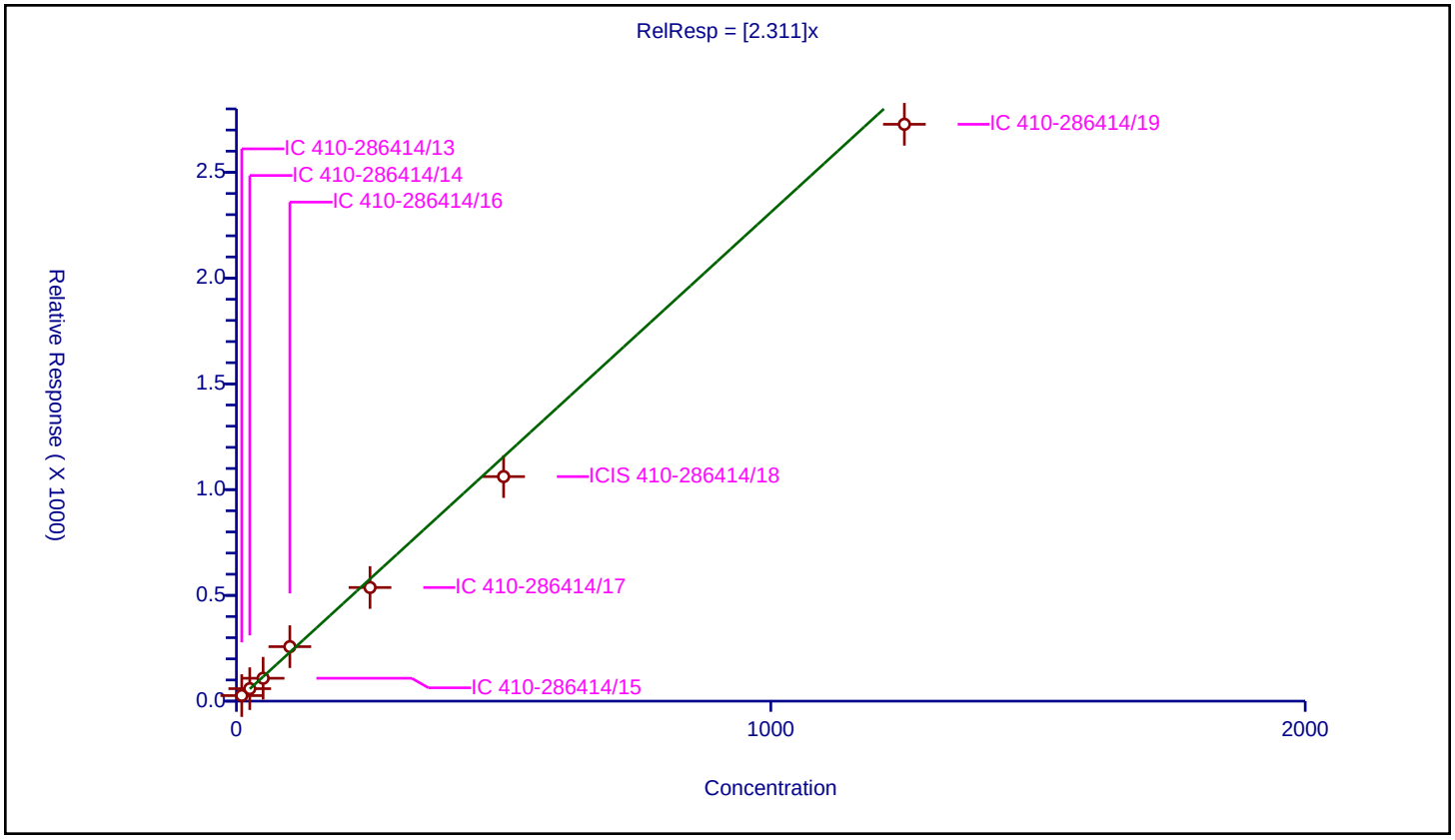
Curve Coefficients

Intercept:	0
Slope:	2.311

Error Coefficients

Standard Error:	3500000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	9.999752	26.238174	50.0	133180.0	2.623882	Y
2	IC 410-286414/14	24.999381	58.937303	50.0	128635.0	2.357551	Y
3	IC 410-286414/15	49.998762	108.27169	50.0	136943.0	2.165487	Y
4	IC 410-286414/16	99.997523	257.608652	50.0	124917.0	2.57615	Y
5	IC 410-286414/17	249.993808	537.254881	50.0	141819.0	2.149073	Y
6	ICIS 410-286414/18	499.987617	1061.578737	50.0	142576.0	2.12321	Y
7	IC 410-286414/19	1249.969042	2727.157521	50.0	143695.0	2.18178	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

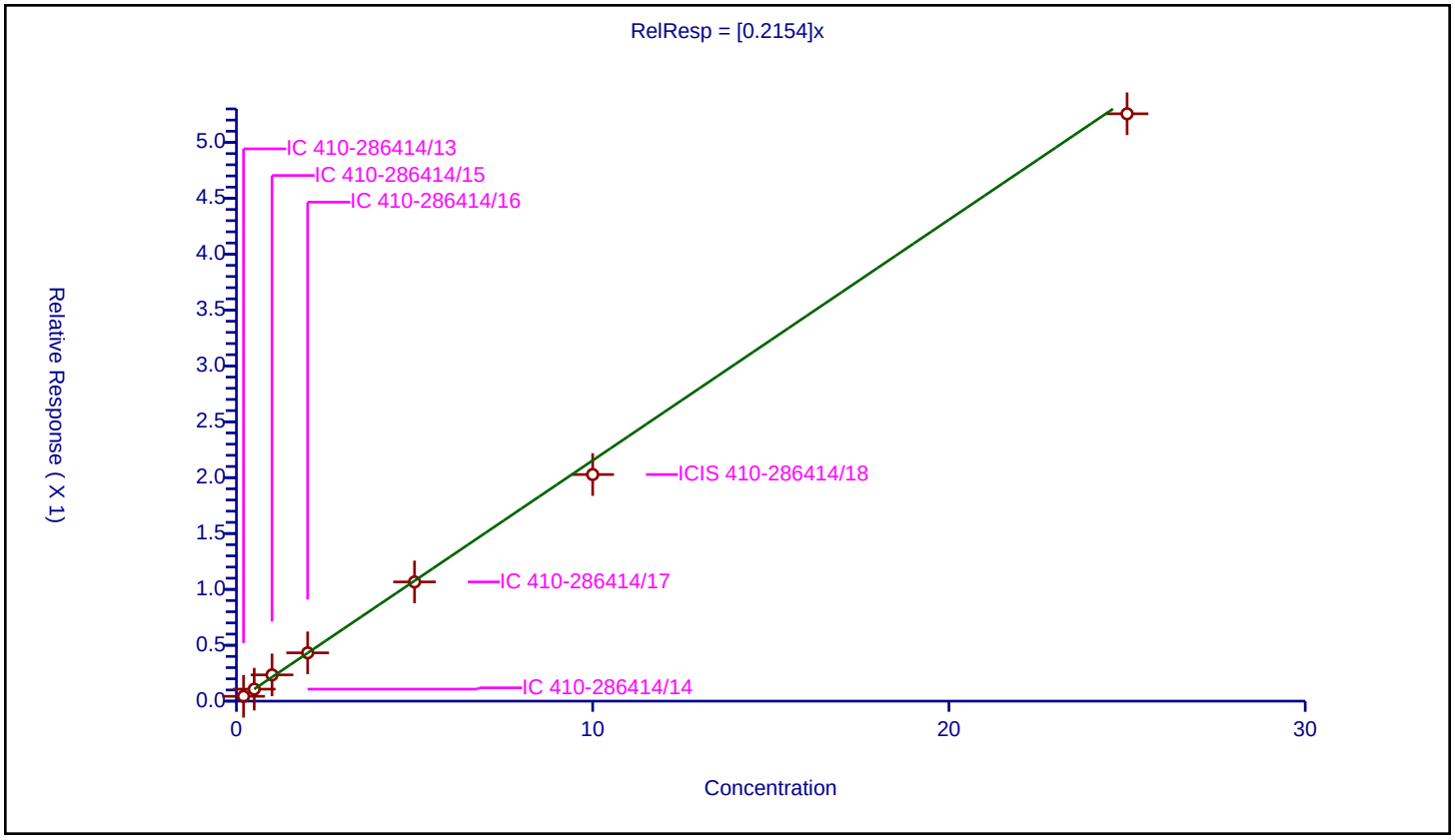
Curve Coefficients

Intercept:	0
Slope:	0.2154

Error Coefficients

Standard Error:	559000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.04314	10.0	2204666.0	0.215702	Y
2	IC 410-286414/14	0.5	0.107356	10.0	2229222.0	0.214712	Y
3	IC 410-286414/15	1.0	0.234963	10.0	2229967.0	0.234963	Y
4	IC 410-286414/16	2.0	0.432138	10.0	2244586.0	0.216069	Y
5	IC 410-286414/17	5.0	1.066743	10.0	2296832.0	0.213349	Y
6	ICIS 410-286414/18	10.0	2.027956	10.0	2328270.0	0.202796	Y
7	IC 410-286414/19	25.0	5.256298	10.0	2388919.0	0.210252	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

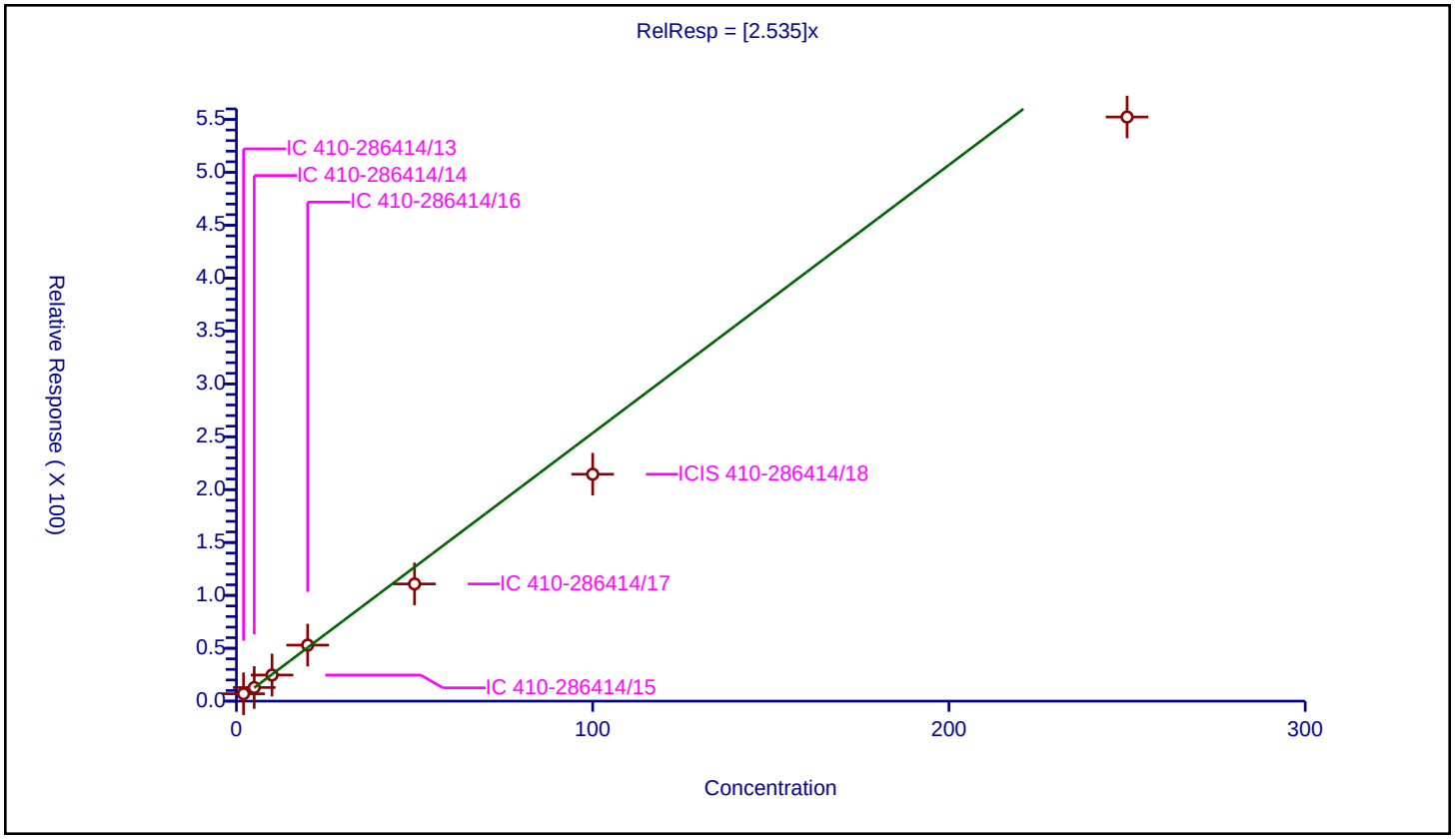
Curve Coefficients

Intercept:	0
Slope:	2.535

Error Coefficients

Standard Error:	709000
Relative Standard Error:	18.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.943

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	6.955624	50.0	133180.0	3.477812	Y
2	IC 410-286414/14	5.0	12.879854	50.0	128635.0	2.575971	Y
3	IC 410-286414/15	10.0	24.701153	50.0	136943.0	2.470115	Y
4	IC 410-286414/16	20.0	52.986383	50.0	124917.0	2.649319	Y
5	IC 410-286414/17	50.0	110.829296	50.0	141819.0	2.216586	Y
6	ICIS 410-286414/18	100.0	214.545225	50.0	142576.0	2.145452	Y
7	IC 410-286414/19	250.0	552.308709	50.0	143695.0	2.209235	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

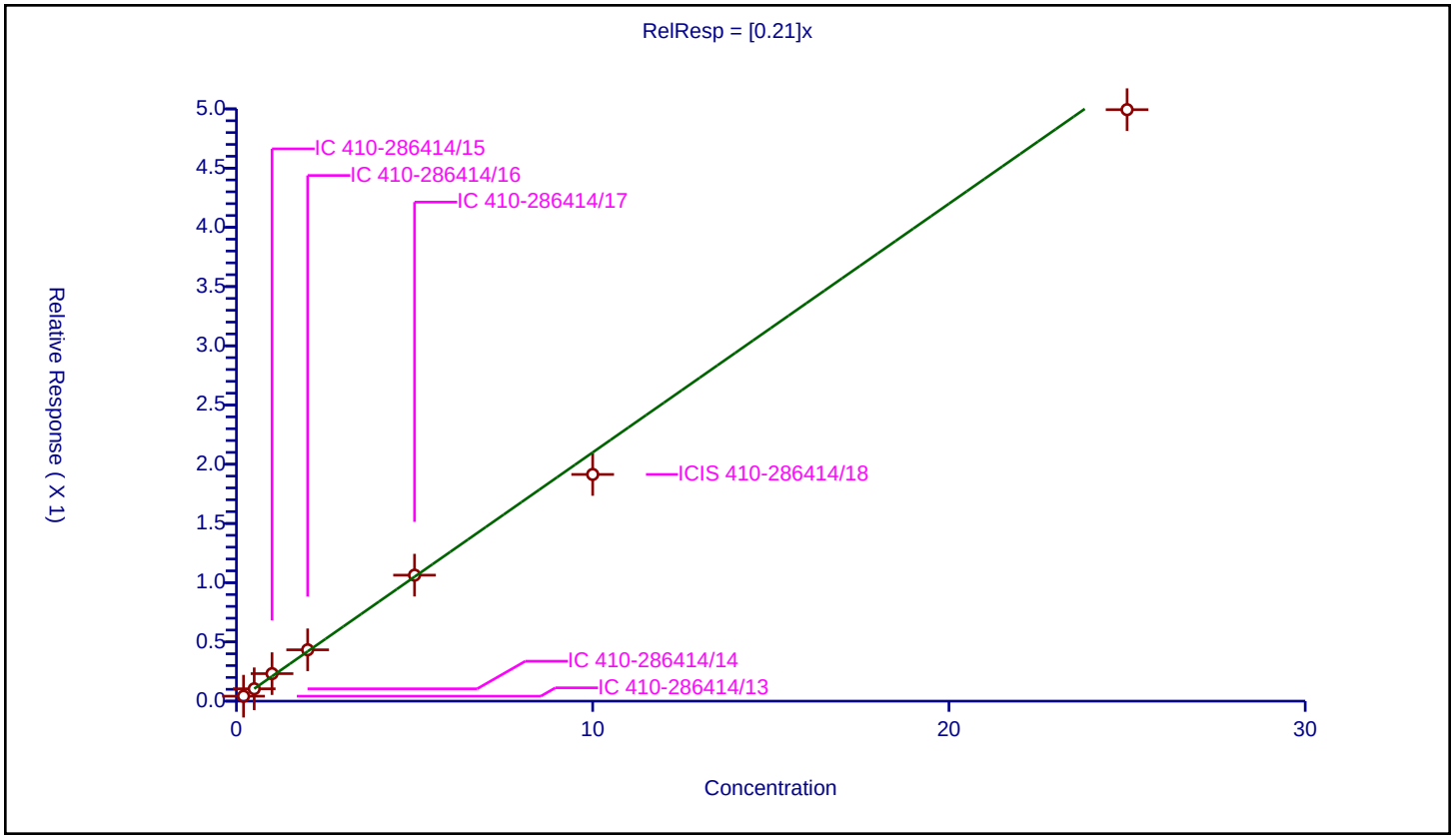
Curve Coefficients

Intercept:	0
Slope:	0.21

Error Coefficients

Standard Error:	531000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.041725	10.0	2204666.0	0.208626	Y
2	IC 410-286414/14	0.5	0.104189	10.0	2229222.0	0.208378	Y
3	IC 410-286414/15	1.0	0.232219	10.0	2229967.0	0.232219	Y
4	IC 410-286414/16	2.0	0.433496	10.0	2244586.0	0.216748	Y
5	IC 410-286414/17	5.0	1.063635	10.0	2296832.0	0.212727	Y
6	ICIS 410-286414/18	10.0	1.913953	10.0	2328270.0	0.191395	Y
7	IC 410-286414/19	25.0	4.993464	10.0	2388919.0	0.199739	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

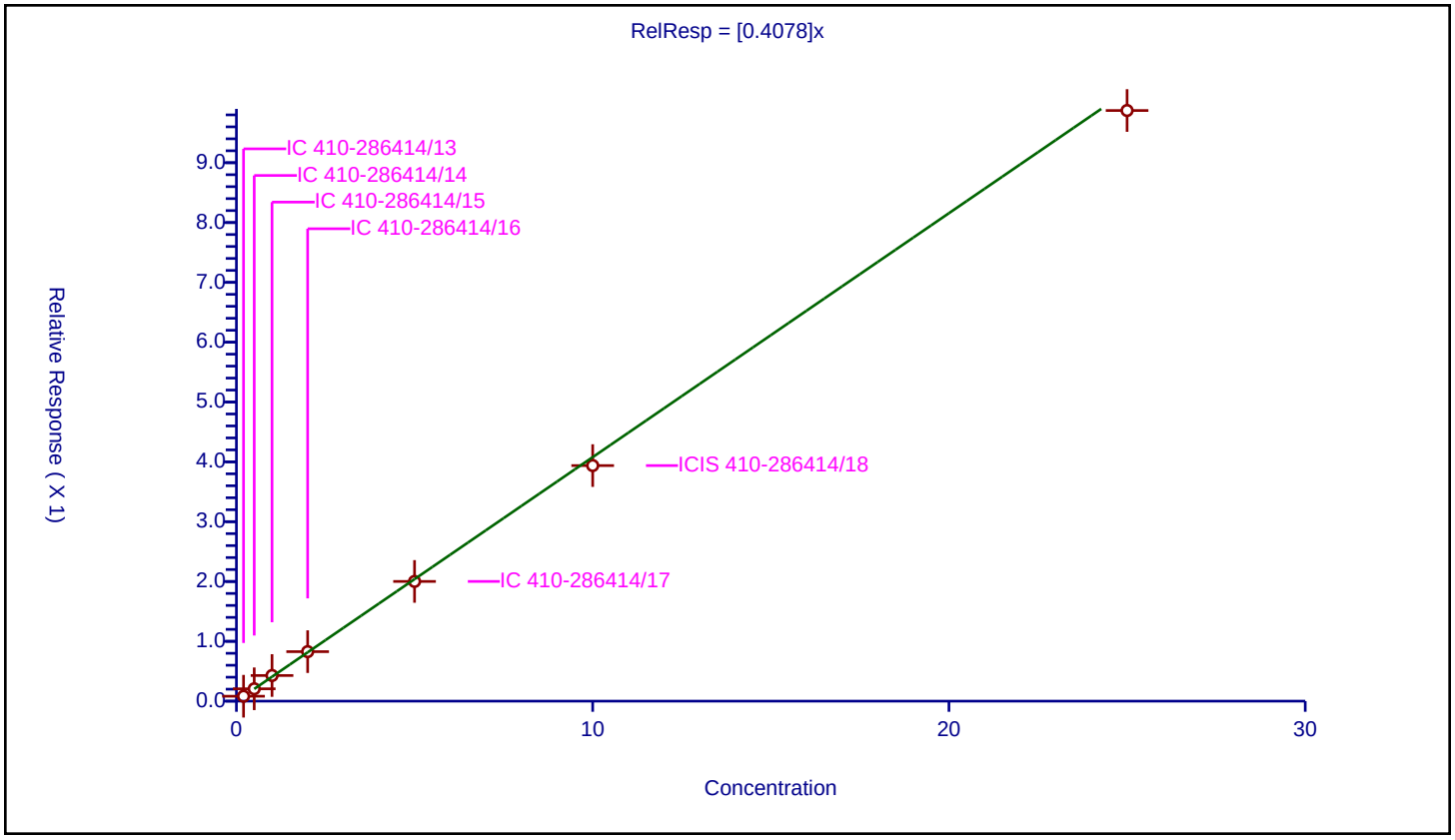
Curve Coefficients

Intercept:	0
Slope:	0.4078

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.082121	10.0	2204666.0	0.410606	Y
2	IC 410-286414/14	0.5	0.206534	10.0	2229222.0	0.413068	Y
3	IC 410-286414/15	1.0	0.428419	10.0	2229967.0	0.428419	Y
4	IC 410-286414/16	2.0	0.8276	10.0	2244586.0	0.4138	Y
5	IC 410-286414/17	5.0	2.001034	10.0	2296832.0	0.400207	Y
6	ICIS 410-286414/18	10.0	3.937705	10.0	2328270.0	0.39377	Y
7	IC 410-286414/19	25.0	9.87262	10.0	2388919.0	0.394905	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

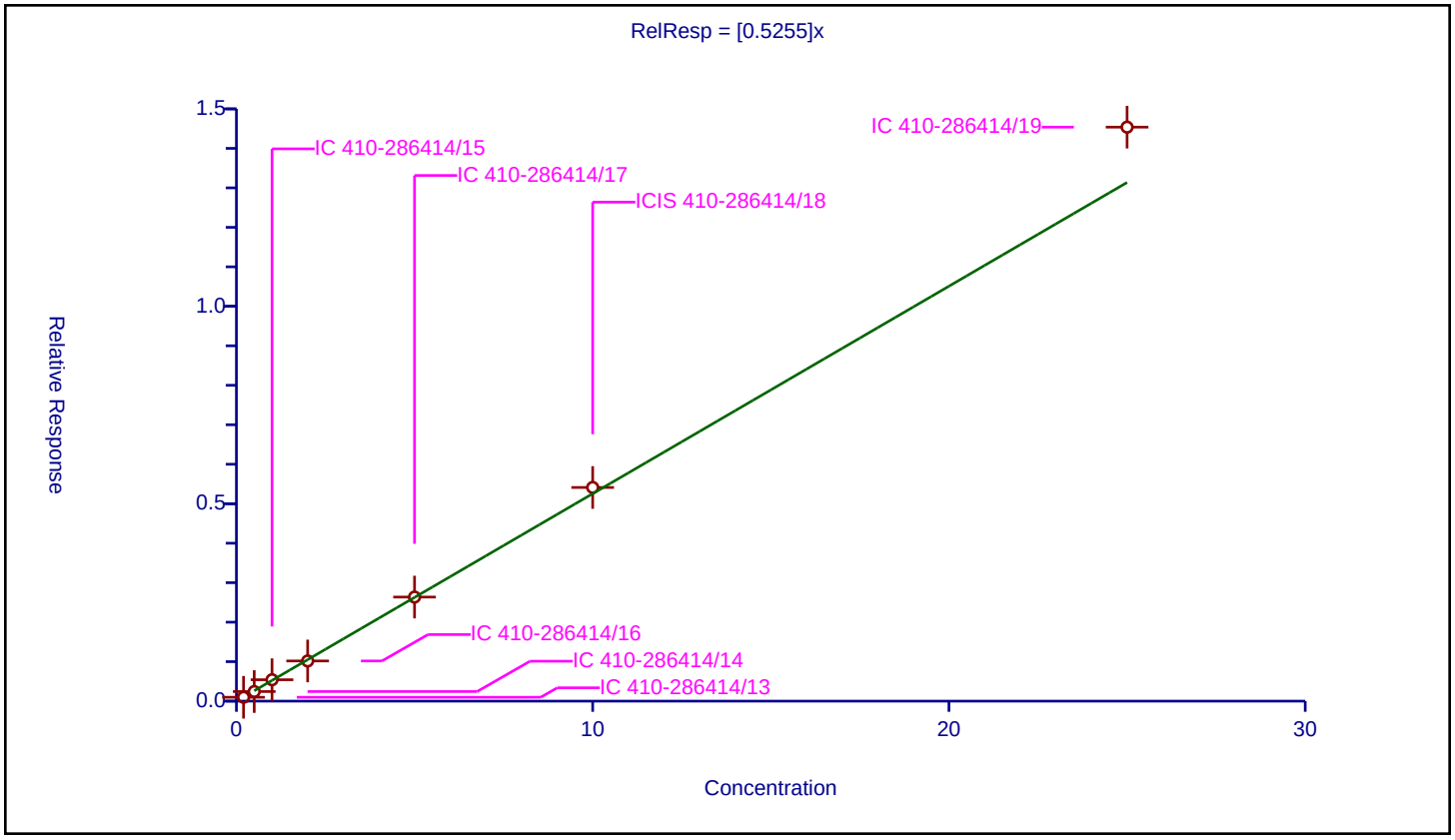
Curve Coefficients

Intercept:	0
Slope:	0.5255

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.098373	10.0	2204666.0	0.491866	Y
2	IC 410-286414/14	0.5	0.242932	10.0	2229222.0	0.485865	Y
3	IC 410-286414/15	1.0	0.541752	10.0	2229967.0	0.541752	Y
4	IC 410-286414/16	2.0	1.01788	10.0	2244586.0	0.50894	Y
5	IC 410-286414/17	5.0	2.636022	10.0	2296832.0	0.527204	Y
6	ICIS 410-286414/18	10.0	5.411374	10.0	2328270.0	0.541137	Y
7	IC 410-286414/19	25.0	14.53768	10.0	2388919.0	0.581507	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

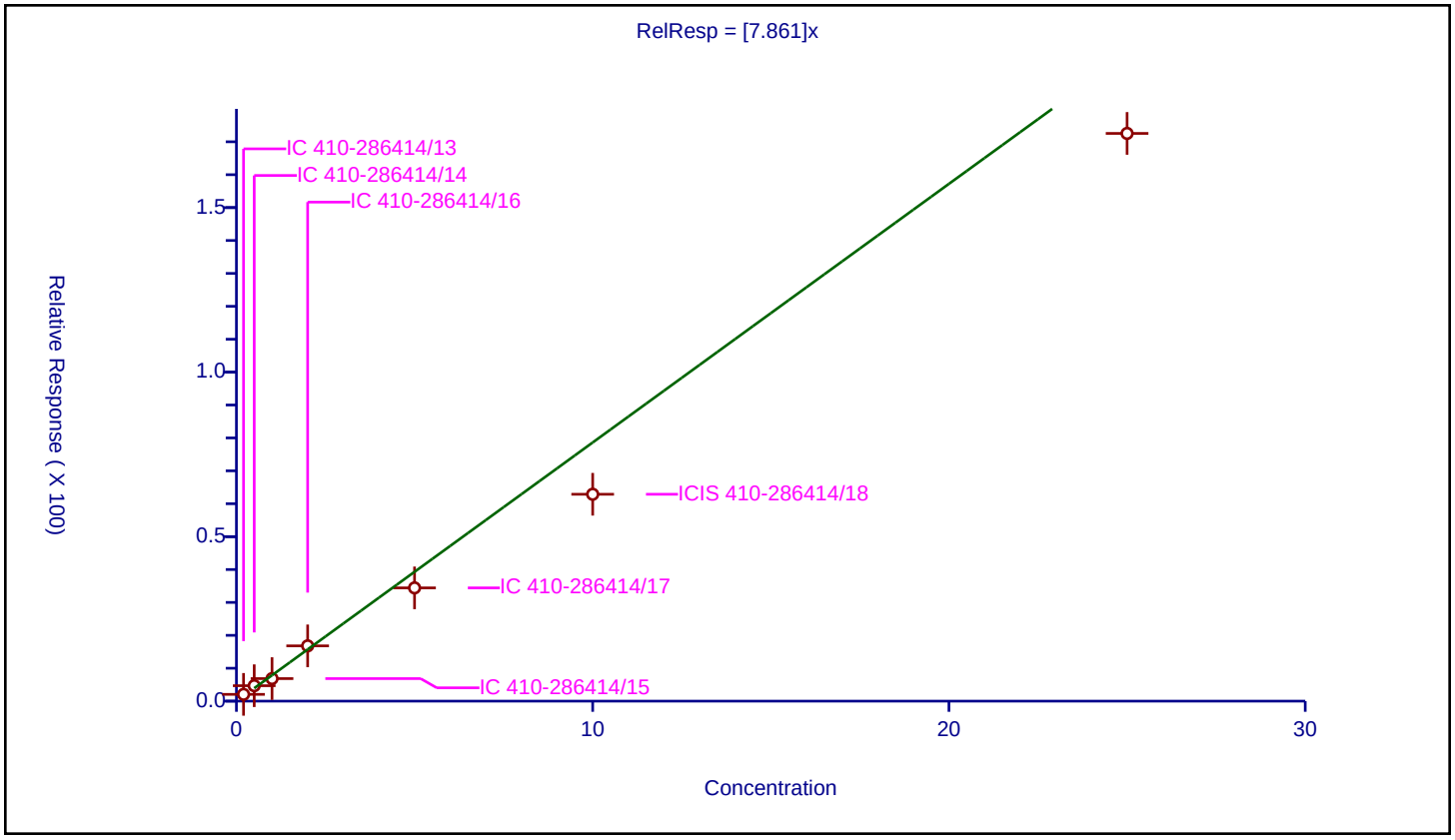
Curve Coefficients

Intercept:	0
Slope:	7.861

Error Coefficients

Standard Error:	220000
Relative Standard Error:	19.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.935

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	2.062622	50.0	133180.0	10.31311	Y
2	IC 410-286414/14	0.5	4.691569	50.0	128635.0	9.383138	Y
3	IC 410-286414/15	1.0	6.854312	50.0	136943.0	6.854312	Y
4	IC 410-286414/16	2.0	16.803958	50.0	124917.0	8.401979	Y
5	IC 410-286414/17	5.0	34.422398	50.0	141819.0	6.88448	Y
6	ICIS 410-286414/18	10.0	62.876992	50.0	142576.0	6.287699	Y
7	IC 410-286414/19	25.0	172.542538	50.0	143695.0	6.901702	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

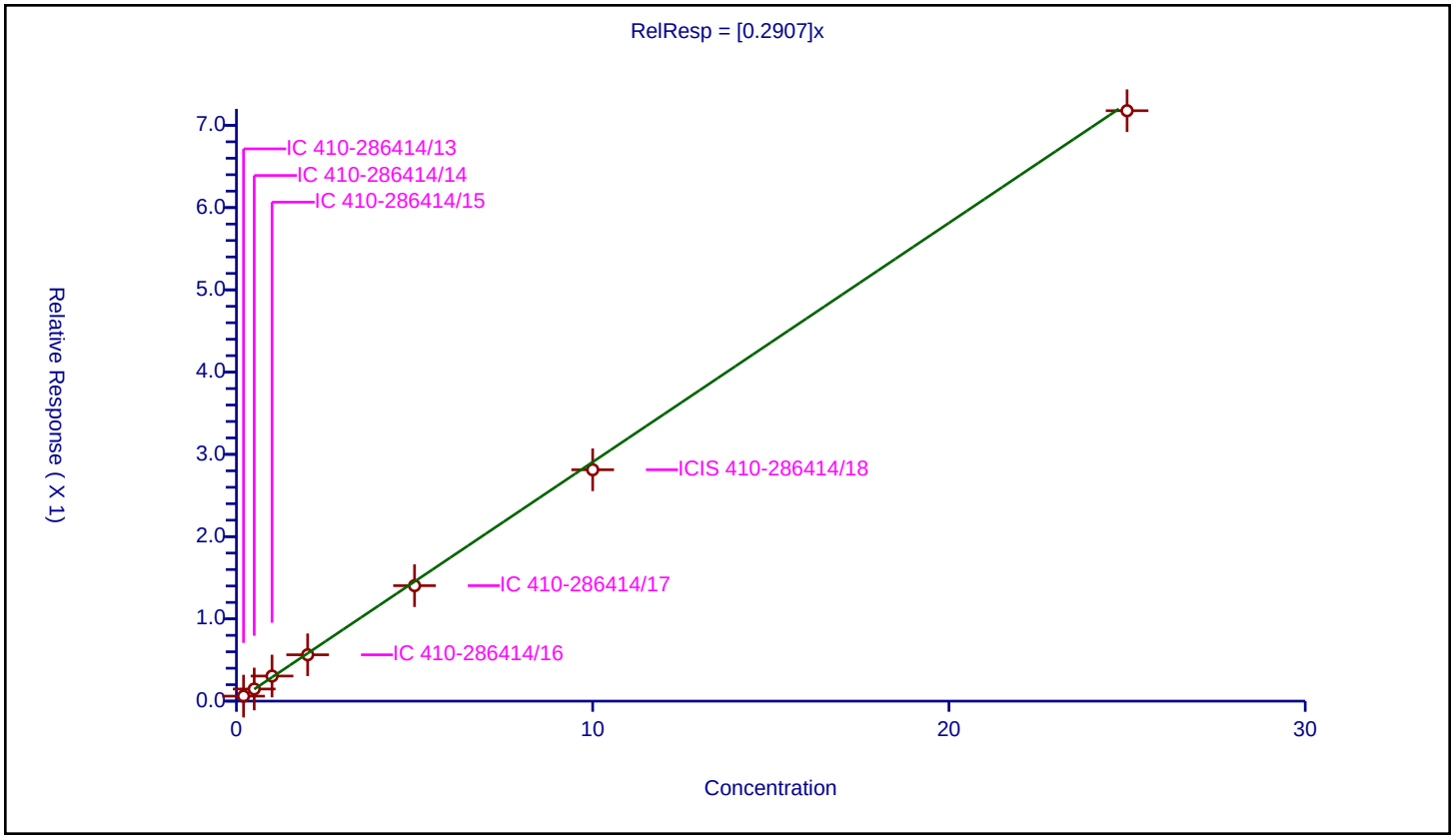
Curve Coefficients

Intercept:	0
Slope:	0.2907

Error Coefficients

Standard Error:	763000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.060649	10.0	2204666.0	0.303243	Y
2	IC 410-286414/14	0.5	0.14763	10.0	2229222.0	0.29526	Y
3	IC 410-286414/15	1.0	0.305283	10.0	2229967.0	0.305283	Y
4	IC 410-286414/16	2.0	0.563641	10.0	2244586.0	0.28182	Y
5	IC 410-286414/17	5.0	1.403794	10.0	2296832.0	0.280759	Y
6	ICIS 410-286414/18	10.0	2.813063	10.0	2328270.0	0.281306	Y
7	IC 410-286414/19	25.0	7.177849	10.0	2388919.0	0.287114	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

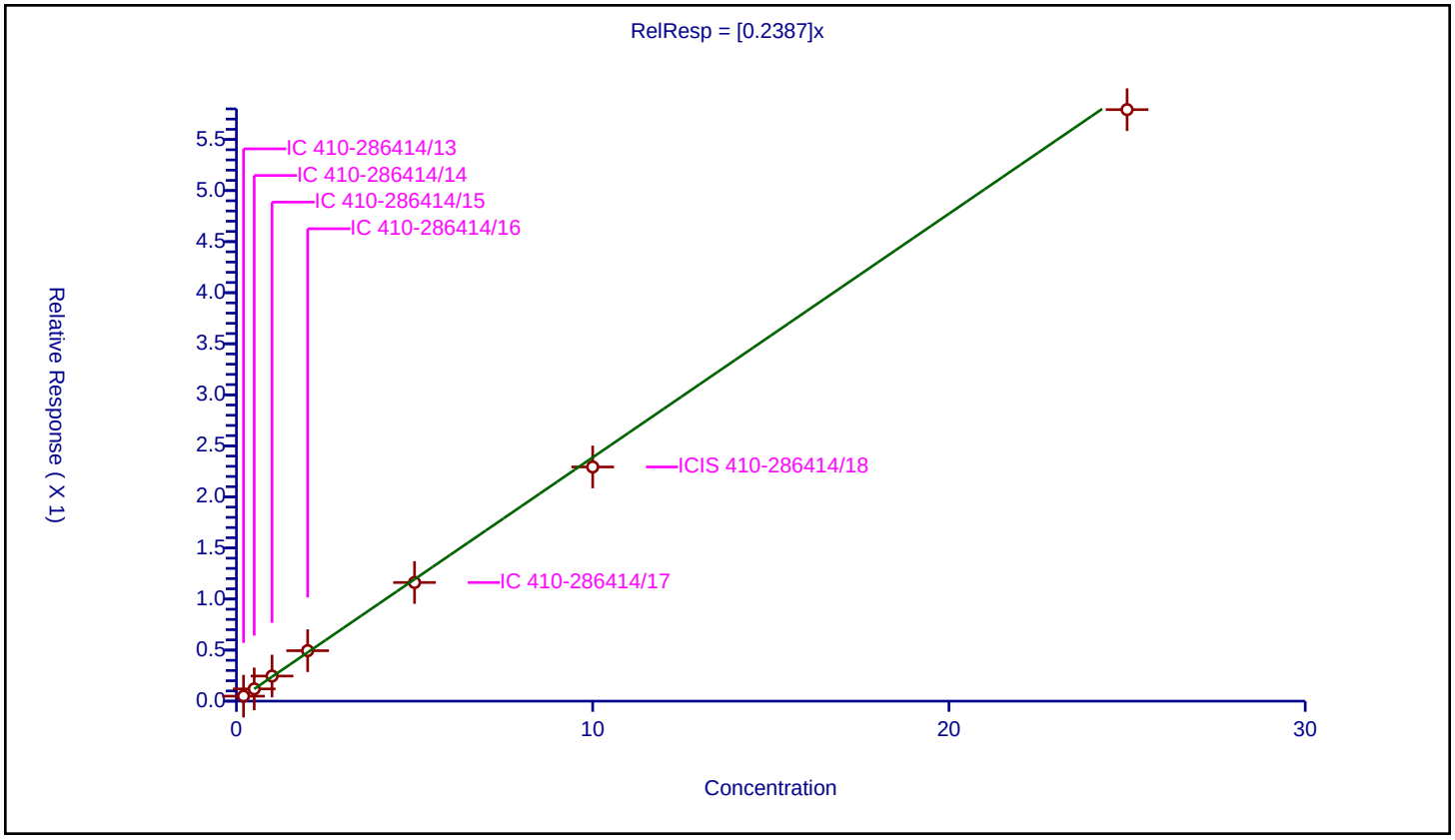
Curve Coefficients

Intercept:	0
Slope:	0.2387

Error Coefficients

Standard Error:	617000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.048905	10.0	2204666.0	0.244527	Y
2	IC 410-286414/14	0.5	0.119934	10.0	2229222.0	0.239868	Y
3	IC 410-286414/15	1.0	0.245766	10.0	2229967.0	0.245766	Y
4	IC 410-286414/16	2.0	0.494189	10.0	2244586.0	0.247095	Y
5	IC 410-286414/17	5.0	1.16177	10.0	2296832.0	0.232354	Y
6	ICIS 410-286414/18	10.0	2.293432	10.0	2328270.0	0.229343	Y
7	IC 410-286414/19	25.0	5.7927	10.0	2388919.0	0.231708	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

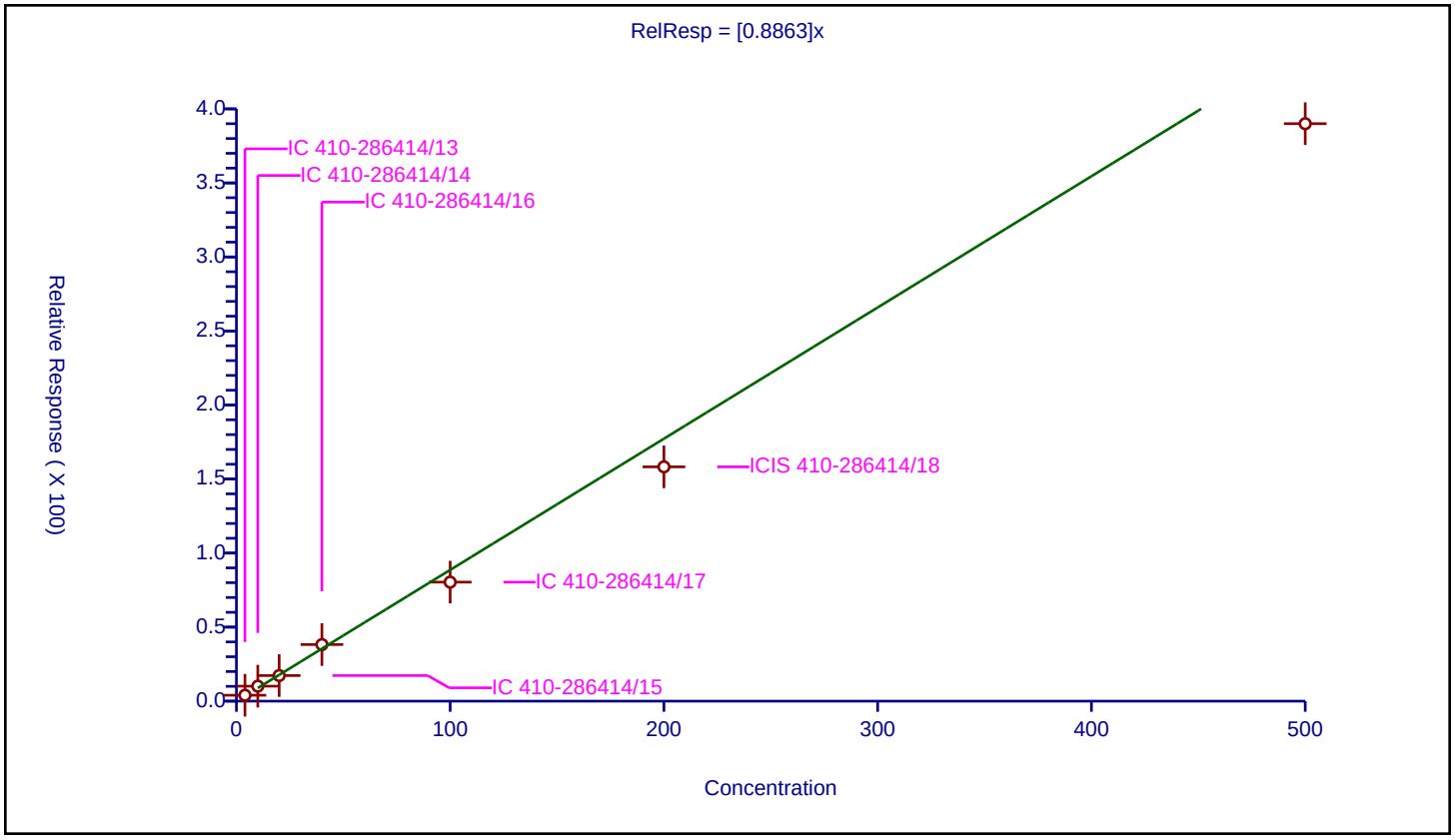
Curve Coefficients

Intercept:	0
Slope:	0.8863

Error Coefficients

Standard Error:	504000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	4.0	3.990089	50.0	133180.0	0.997522	Y
2	IC 410-286414/14	10.0	10.122828	50.0	128635.0	1.012283	Y
3	IC 410-286414/15	20.0	17.278722	50.0	136943.0	0.863936	Y
4	IC 410-286414/16	40.0	38.20817	50.0	124917.0	0.955204	Y
5	IC 410-286414/17	100.0	80.376748	50.0	141819.0	0.803767	Y
6	ICIS 410-286414/18	200.0	158.235608	50.0	142576.0	0.791178	Y
7	IC 410-286414/19	500.0	390.008003	50.0	143695.0	0.780016	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

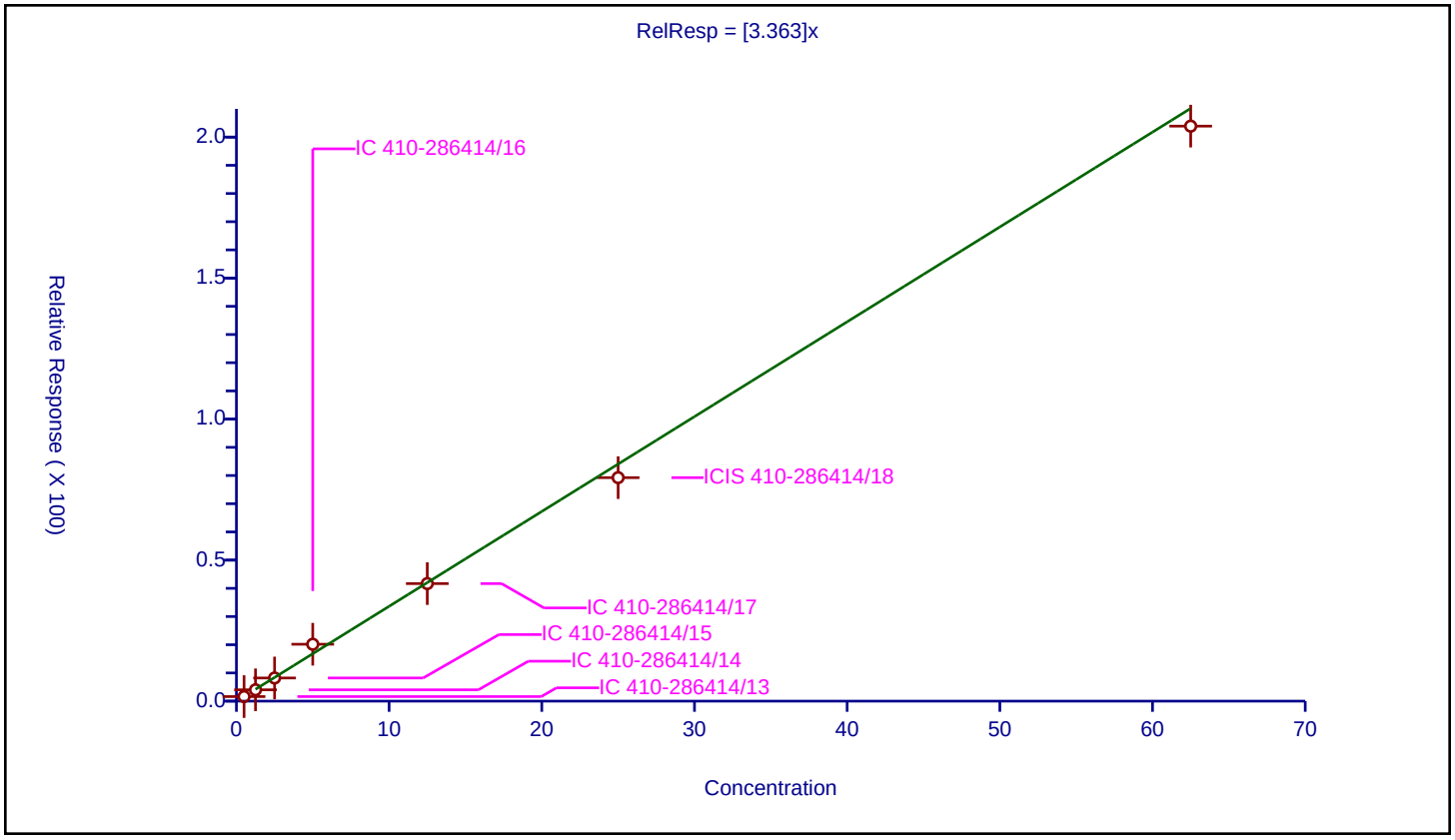
Curve Coefficients

Intercept:	0
Slope:	3.363

Error Coefficients

Standard Error:	262000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.5	1.62149	50.0	133180.0	3.242979	Y
2	IC 410-286414/14	1.25	4.015237	50.0	128635.0	3.21219	Y
3	IC 410-286414/15	2.5	8.207064	50.0	136943.0	3.282826	Y
4	IC 410-286414/16	5.0	20.173795	50.0	124917.0	4.034759	Y
5	IC 410-286414/17	12.5	41.67742	50.0	141819.0	3.334194	Y
6	ICIS 410-286414/18	25.0	79.244754	50.0	142576.0	3.16979	Y
7	IC 410-286414/19	62.5	203.884965	50.0	143695.0	3.262159	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

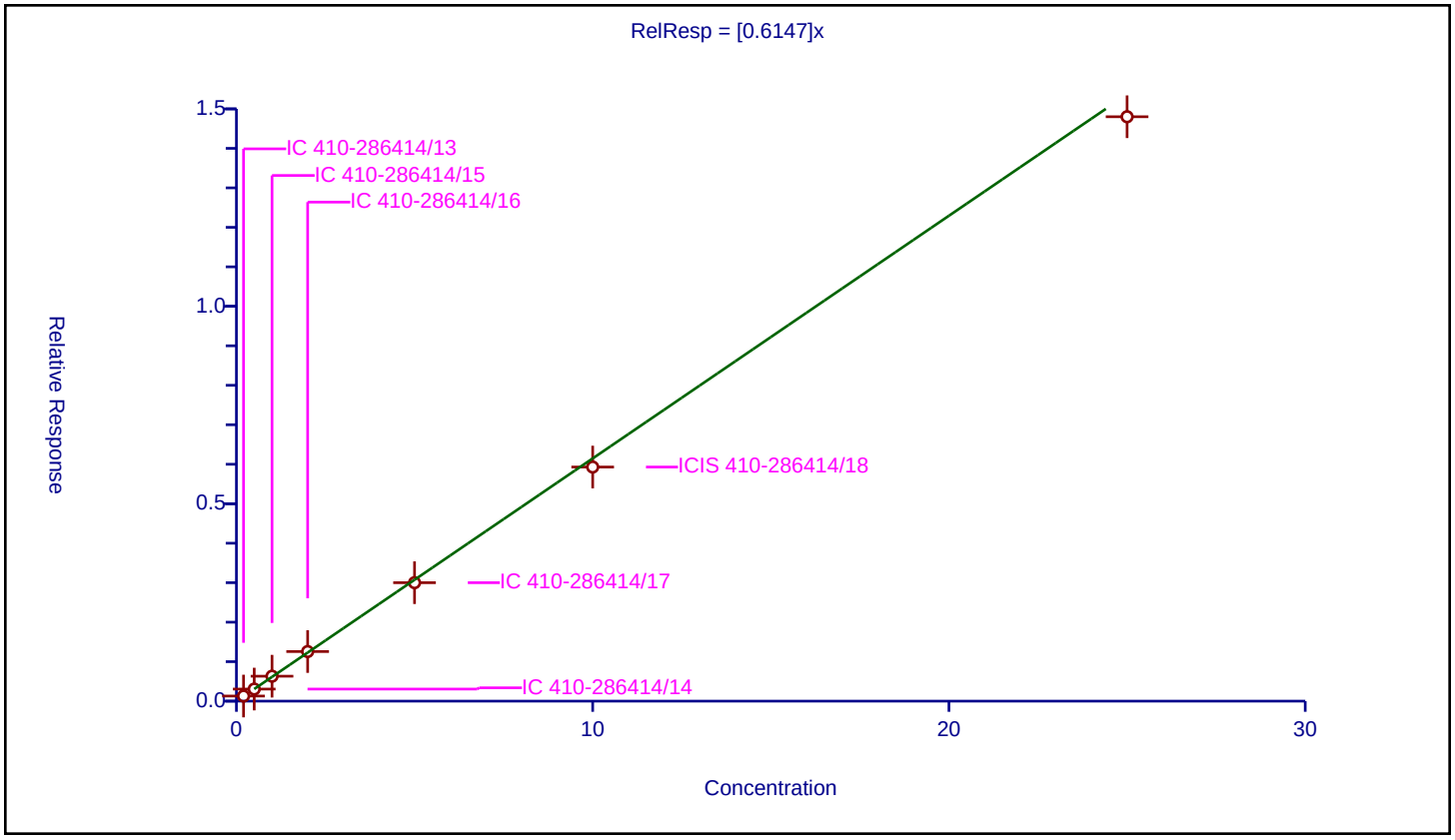
Curve Coefficients

Intercept:	0
Slope:	0.6147

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.129235	10.0	2204666.0	0.646175	Y
2	IC 410-286414/14	0.5	0.305941	10.0	2229222.0	0.611882	Y
3	IC 410-286414/15	1.0	0.631731	10.0	2229967.0	0.631731	Y
4	IC 410-286414/16	2.0	1.256125	10.0	2244586.0	0.628062	Y
5	IC 410-286414/17	5.0	3.000137	10.0	2296832.0	0.600027	Y
6	ICIS 410-286414/18	10.0	5.928947	10.0	2328270.0	0.592895	Y
7	IC 410-286414/19	25.0	14.801247	10.0	2388919.0	0.59205	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

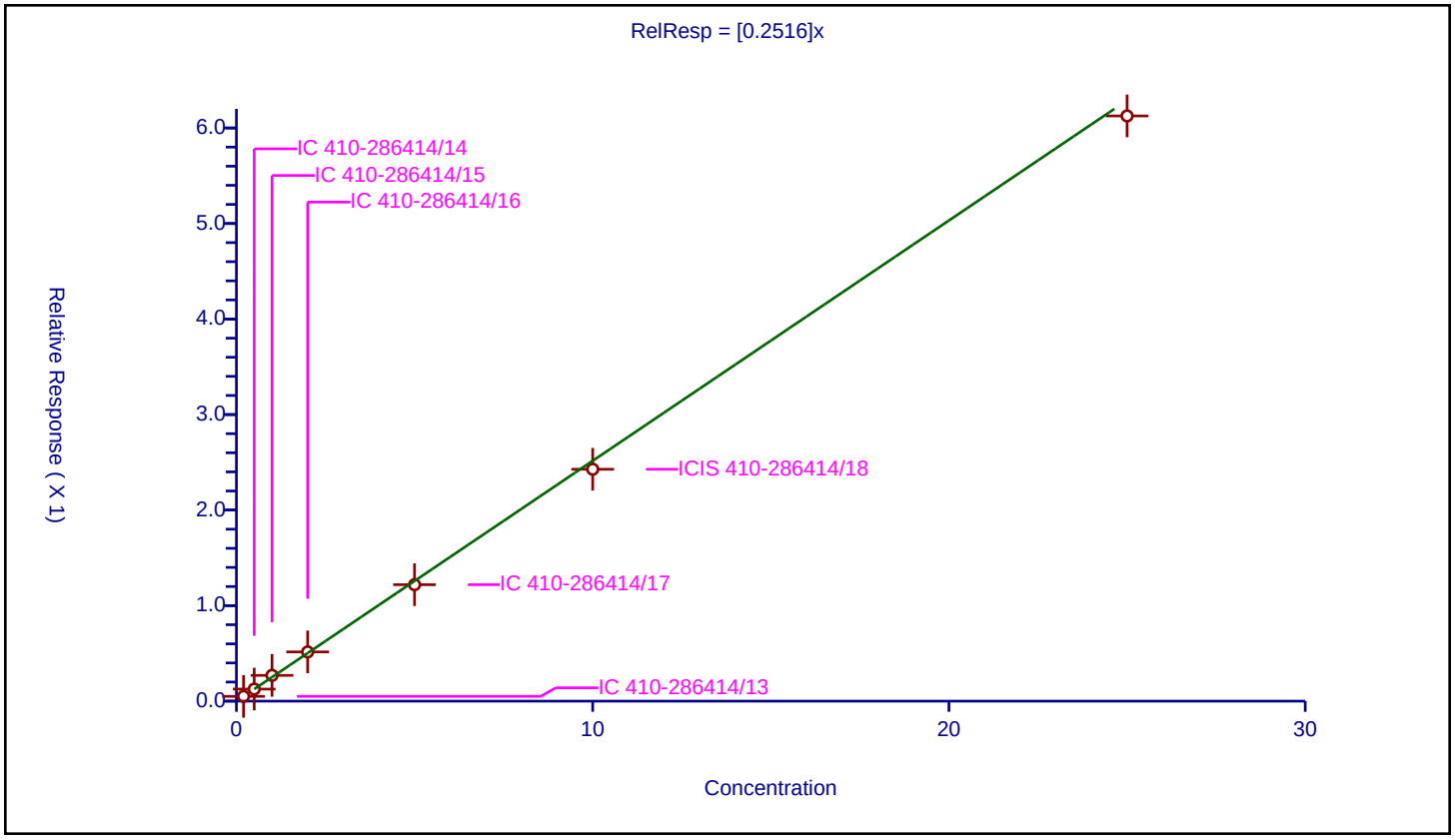
Curve Coefficients

Intercept:	0
Slope:	0.2516

Error Coefficients

Standard Error:	653000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.049917	10.0	2204666.0	0.249584	Y
2	IC 410-286414/14	0.5	0.126214	10.0	2229222.0	0.252429	Y
3	IC 410-286414/15	1.0	0.269807	10.0	2229967.0	0.269807	Y
4	IC 410-286414/16	2.0	0.515338	10.0	2244586.0	0.257669	Y
5	IC 410-286414/17	5.0	1.219088	10.0	2296832.0	0.243818	Y
6	ICIS 410-286414/18	10.0	2.427592	10.0	2328270.0	0.242759	Y
7	IC 410-286414/19	25.0	6.126009	10.0	2388919.0	0.24504	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

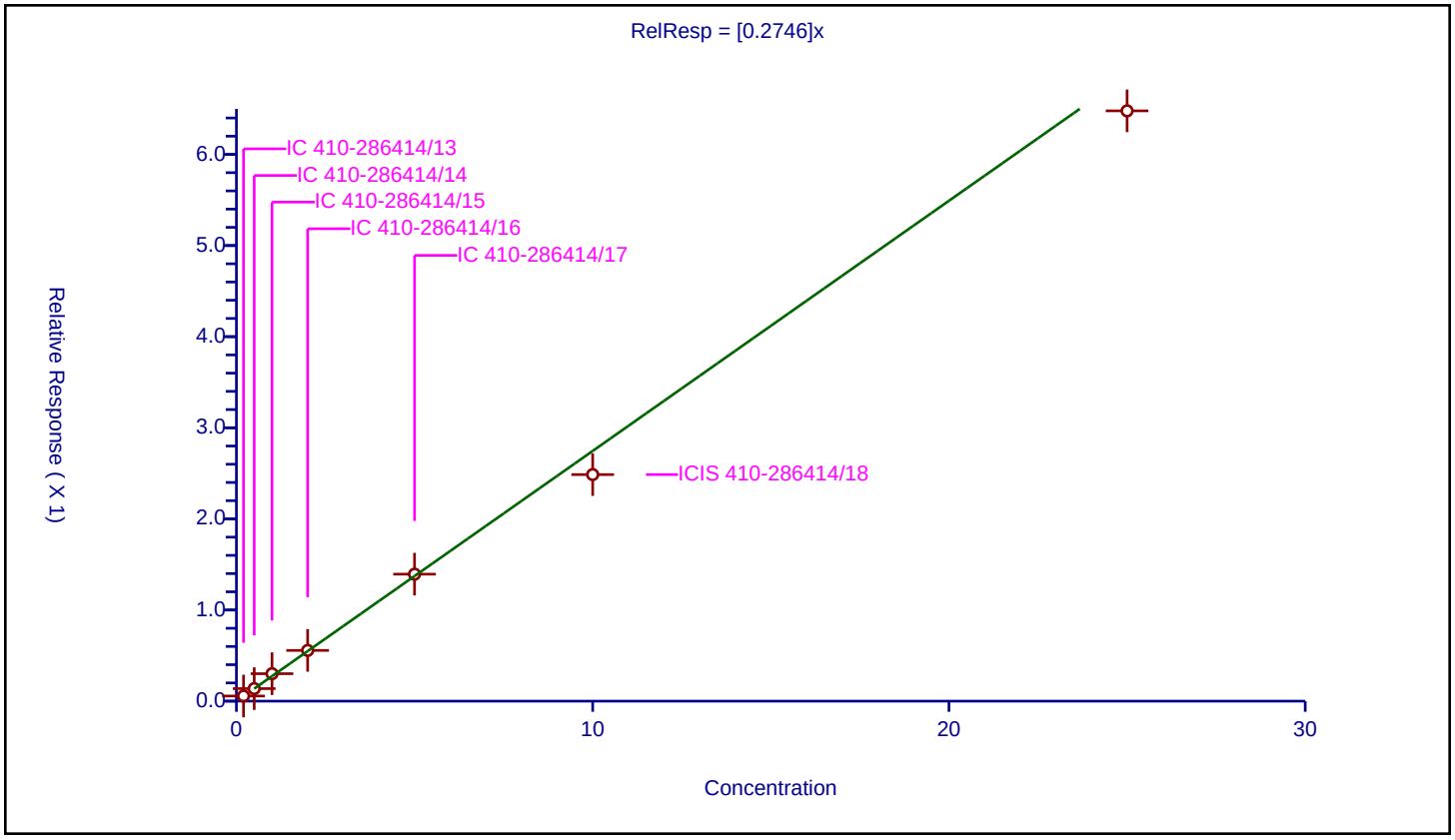
Curve Coefficients

Intercept:	0
Slope:	0.2746

Error Coefficients

Standard Error:	690000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.056217	10.0	2204666.0	0.281086	Y
2	IC 410-286414/14	0.5	0.137425	10.0	2229222.0	0.274849	Y
3	IC 410-286414/15	1.0	0.3013	10.0	2229967.0	0.3013	Y
4	IC 410-286414/16	2.0	0.556624	10.0	2244586.0	0.278312	Y
5	IC 410-286414/17	5.0	1.393506	10.0	2296832.0	0.278701	Y
6	ICIS 410-286414/18	10.0	2.486619	10.0	2328270.0	0.248662	Y
7	IC 410-286414/19	25.0	6.478332	10.0	2388919.0	0.259133	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

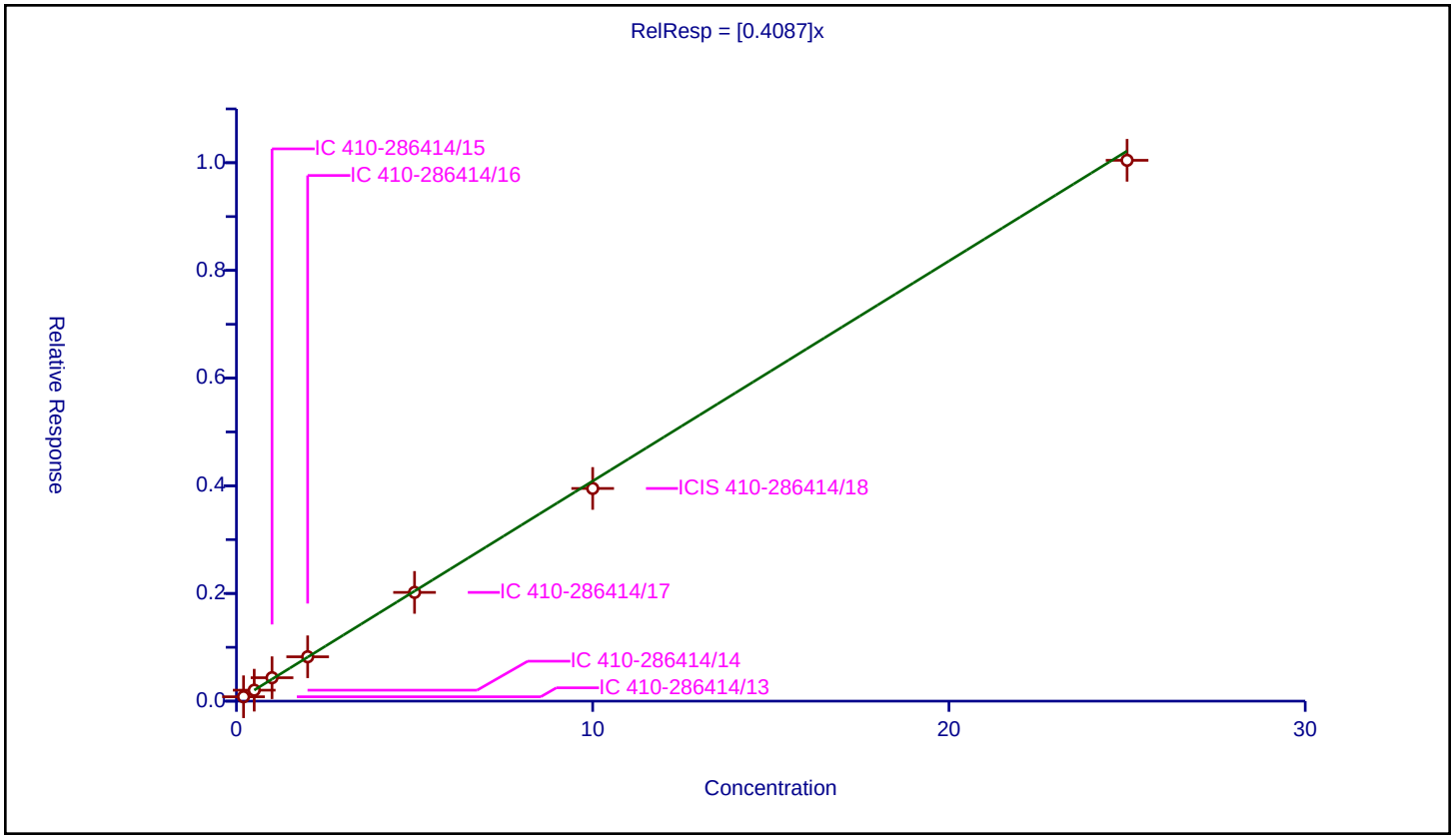
Curve Coefficients

Intercept:	0
Slope:	0.4087

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.081287	10.0	2204666.0	0.406433	Y
2	IC 410-286414/14	0.5	0.203533	10.0	2229222.0	0.407066	Y
3	IC 410-286414/15	1.0	0.434971	10.0	2229967.0	0.434971	Y
4	IC 410-286414/16	2.0	0.82384	10.0	2244586.0	0.41192	Y
5	IC 410-286414/17	5.0	2.019347	10.0	2296832.0	0.403869	Y
6	ICIS 410-286414/18	10.0	3.950521	10.0	2328270.0	0.395052	Y
7	IC 410-286414/19	25.0	10.045485	10.0	2388919.0	0.401819	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

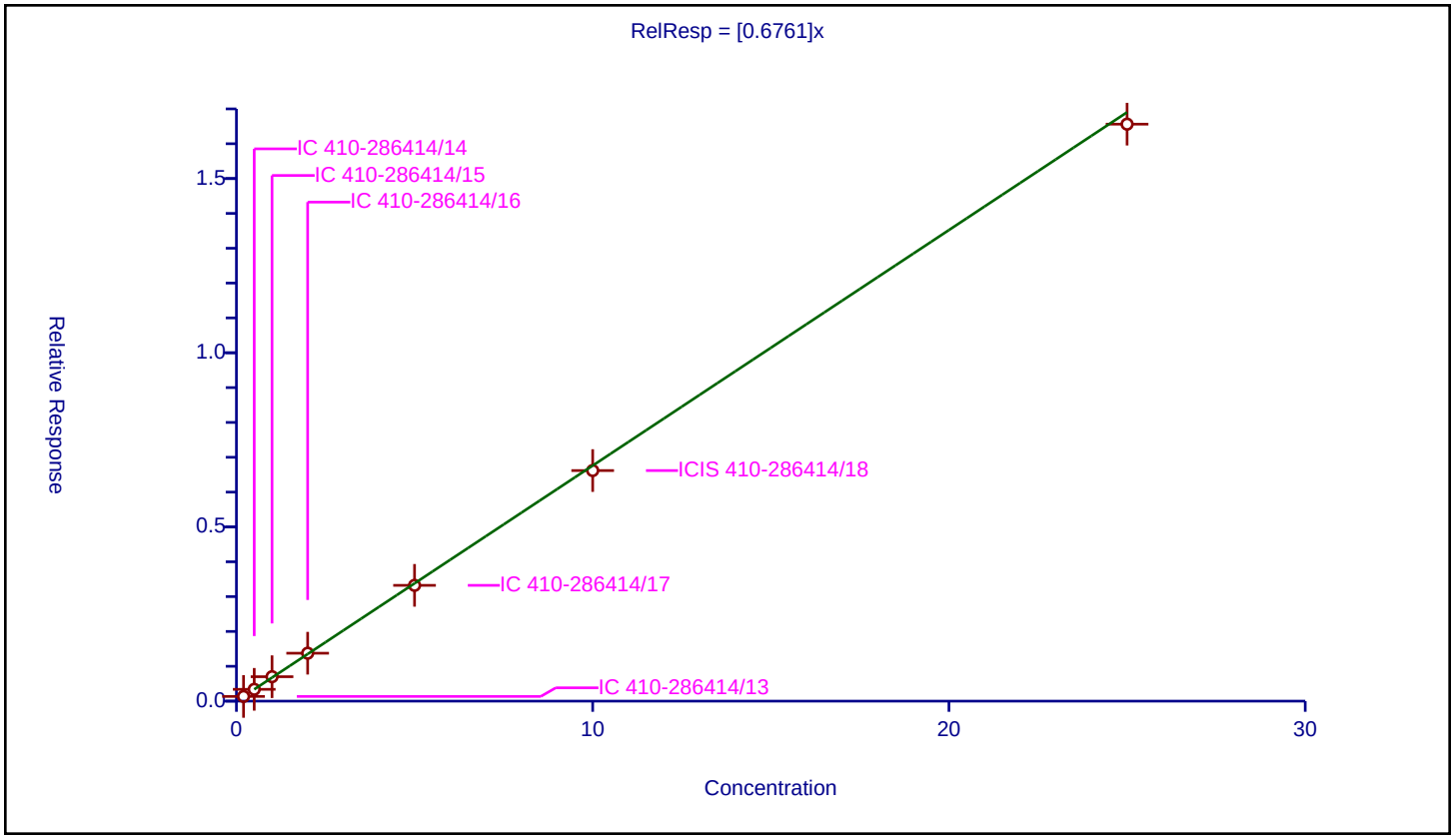
Curve Coefficients

Intercept:	0
Slope:	0.6761

Error Coefficients

Standard Error:	1770000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.135204	10.0	2204666.0	0.676021	Y
2	IC 410-286414/14	0.5	0.339405	10.0	2229222.0	0.678811	Y
3	IC 410-286414/15	1.0	0.701096	10.0	2229967.0	0.701096	Y
4	IC 410-286414/16	2.0	1.375728	10.0	2244586.0	0.687864	Y
5	IC 410-286414/17	5.0	3.323443	10.0	2296832.0	0.664689	Y
6	ICIS 410-286414/18	10.0	6.619108	10.0	2328270.0	0.661911	Y
7	IC 410-286414/19	25.0	16.561847	10.0	2388919.0	0.662474	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

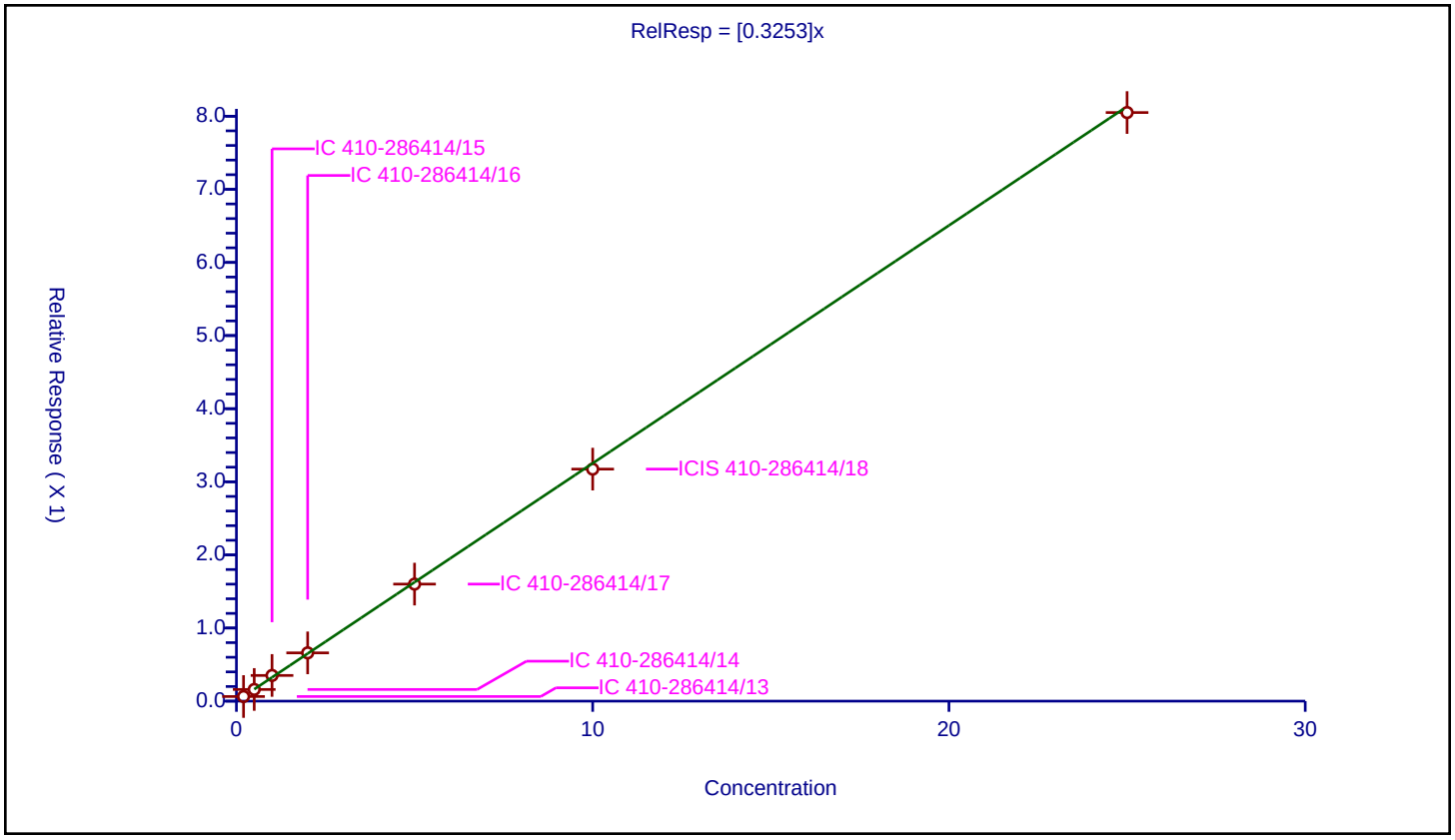
Curve Coefficients

Intercept:	0
Slope:	0.3253

Error Coefficients

Standard Error:	857000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.063288	10.0	2204666.0	0.316442	Y
2	IC 410-286414/14	0.5	0.159908	10.0	2229222.0	0.319816	Y
3	IC 410-286414/15	1.0	0.351265	10.0	2229967.0	0.351265	Y
4	IC 410-286414/16	2.0	0.660122	10.0	2244586.0	0.330061	Y
5	IC 410-286414/17	5.0	1.600853	10.0	2296832.0	0.320171	Y
6	ICIS 410-286414/18	10.0	3.173236	10.0	2328270.0	0.317324	Y
7	IC 410-286414/19	25.0	8.050064	10.0	2388919.0	0.322003	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

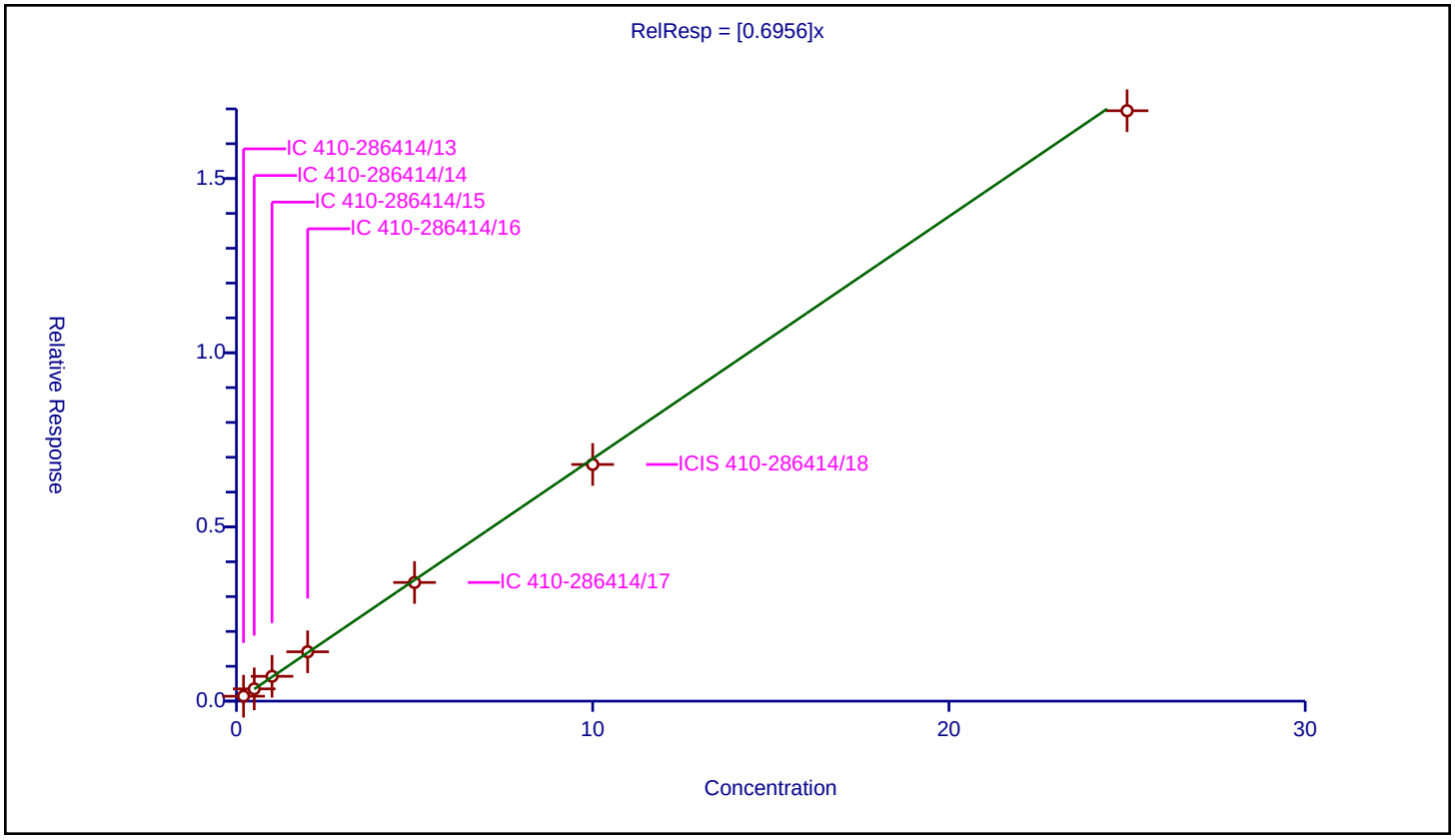
Curve Coefficients

Intercept:	0
Slope:	0.6956

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.140951	10.0	2204666.0	0.704755	Y
2	IC 410-286414/14	0.5	0.352271	10.0	2229222.0	0.704542	Y
3	IC 410-286414/15	1.0	0.712782	10.0	2229967.0	0.712782	Y
4	IC 410-286414/16	2.0	1.417179	10.0	2244586.0	0.708589	Y
5	IC 410-286414/17	5.0	3.406457	10.0	2296832.0	0.681291	Y
6	ICIS 410-286414/18	10.0	6.793692	10.0	2328270.0	0.679369	Y
7	IC 410-286414/19	25.0	16.947435	10.0	2388919.0	0.677897	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

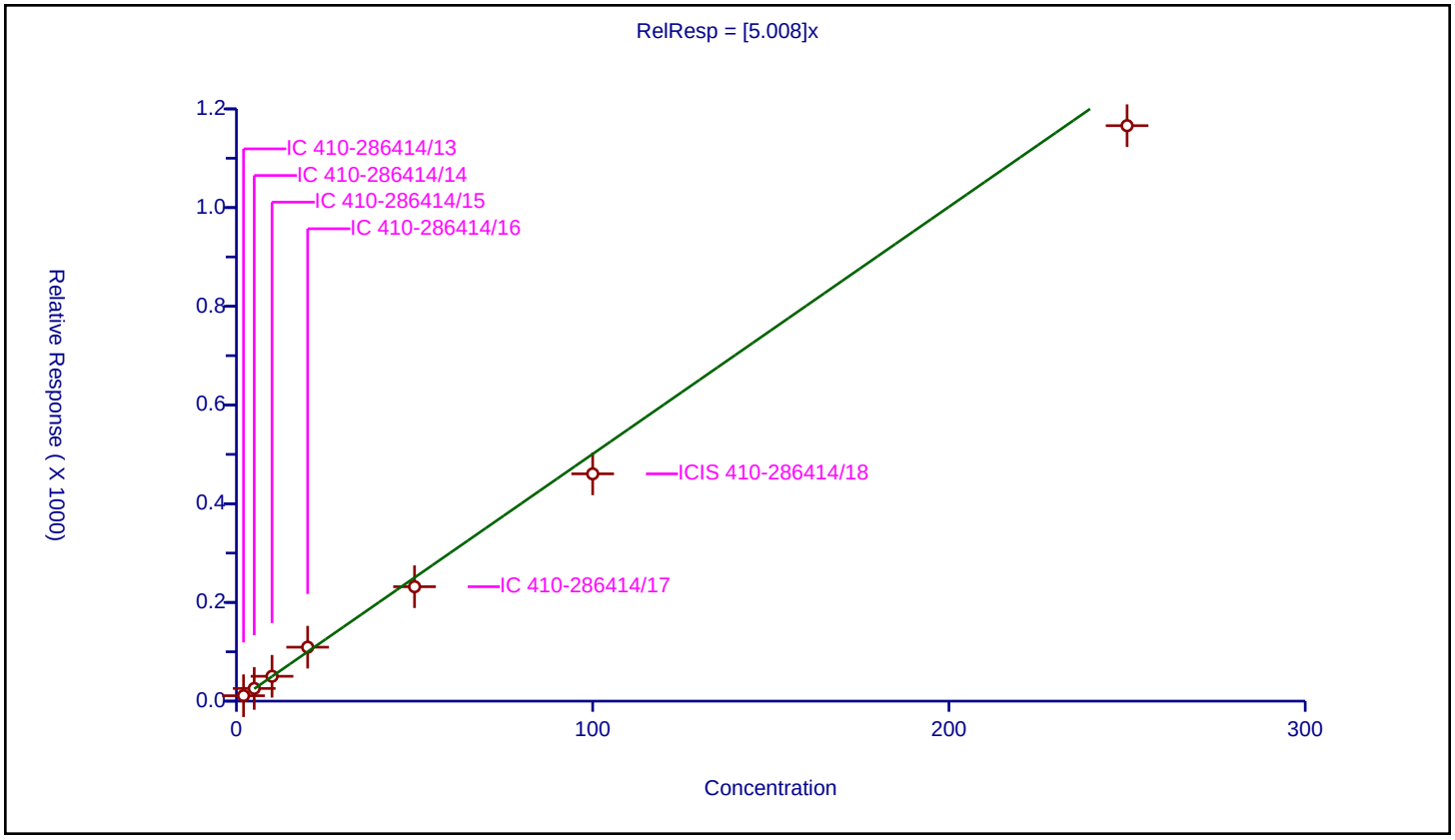
Curve Coefficients

Intercept:	0
Slope:	5.008

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	11.004655	50.0	133180.0	5.502328	Y
2	IC 410-286414/14	5.0	25.722782	50.0	128635.0	5.144556	Y
3	IC 410-286414/15	10.0	50.361464	50.0	136943.0	5.036146	Y
4	IC 410-286414/16	20.0	109.311783	50.0	124917.0	5.465589	Y
5	IC 410-286414/17	50.0	231.841291	50.0	141819.0	4.636826	Y
6	ICIS 410-286414/18	100.0	460.539642	50.0	142576.0	4.605396	Y
7	IC 410-286414/19	250.0	1166.003688	50.0	143695.0	4.664015	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

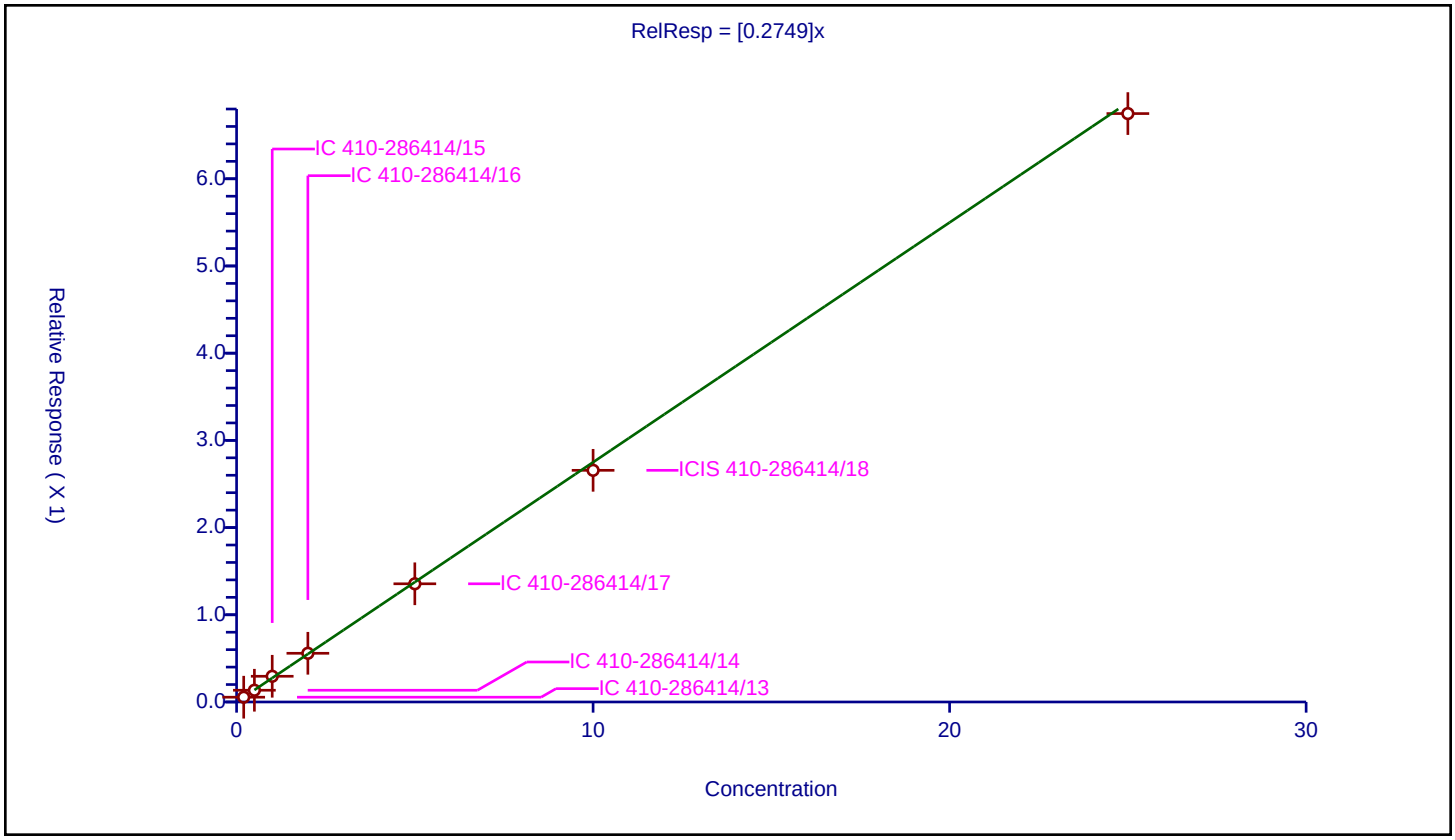
Curve Coefficients

Intercept:	0
Slope:	0.2749

Error Coefficients

Standard Error:	719000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.054879	10.0	2204666.0	0.274395	Y
2	IC 410-286414/14	0.5	0.13467	10.0	2229222.0	0.269341	Y
3	IC 410-286414/15	1.0	0.294883	10.0	2229967.0	0.294883	Y
4	IC 410-286414/16	2.0	0.558629	10.0	2244586.0	0.279314	Y
5	IC 410-286414/17	5.0	1.35558	10.0	2296832.0	0.271116	Y
6	ICIS 410-286414/18	10.0	2.656694	10.0	2328270.0	0.265669	Y
7	IC 410-286414/19	25.0	6.747596	10.0	2388919.0	0.269904	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

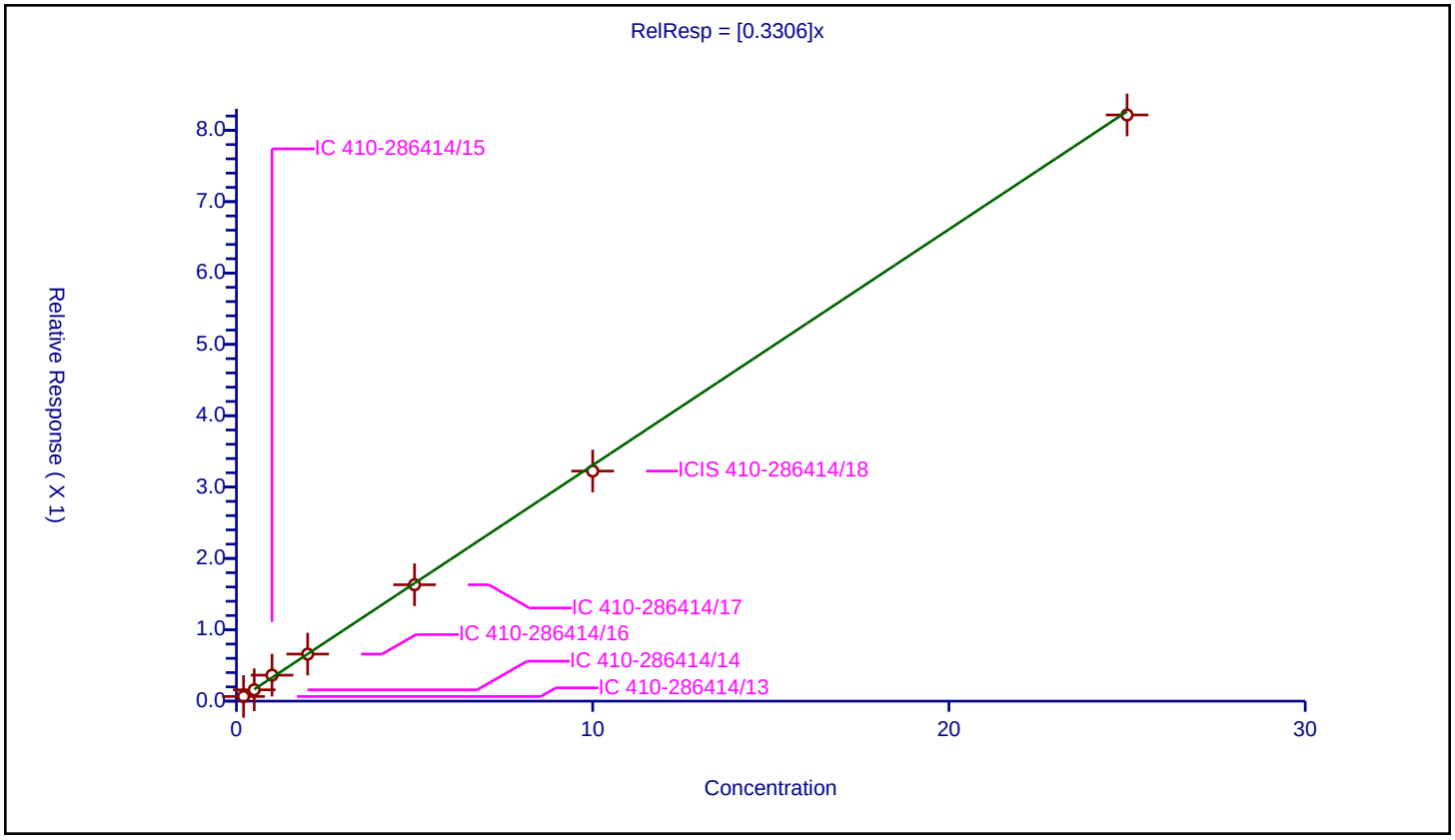
Curve Coefficients

Intercept:	0
Slope:	0.3306

Error Coefficients

Standard Error:	874000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.06513	10.0	2204666.0	0.32565	Y
2	IC 410-286414/14	0.5	0.158679	10.0	2229222.0	0.317357	Y
3	IC 410-286414/15	1.0	0.364167	10.0	2229967.0	0.364167	Y
4	IC 410-286414/16	2.0	0.659191	10.0	2244586.0	0.329595	Y
5	IC 410-286414/17	5.0	1.631186	10.0	2296832.0	0.326237	Y
6	ICIS 410-286414/18	10.0	3.224398	10.0	2328270.0	0.32244	Y
7	IC 410-286414/19	25.0	8.214783	10.0	2388919.0	0.328591	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

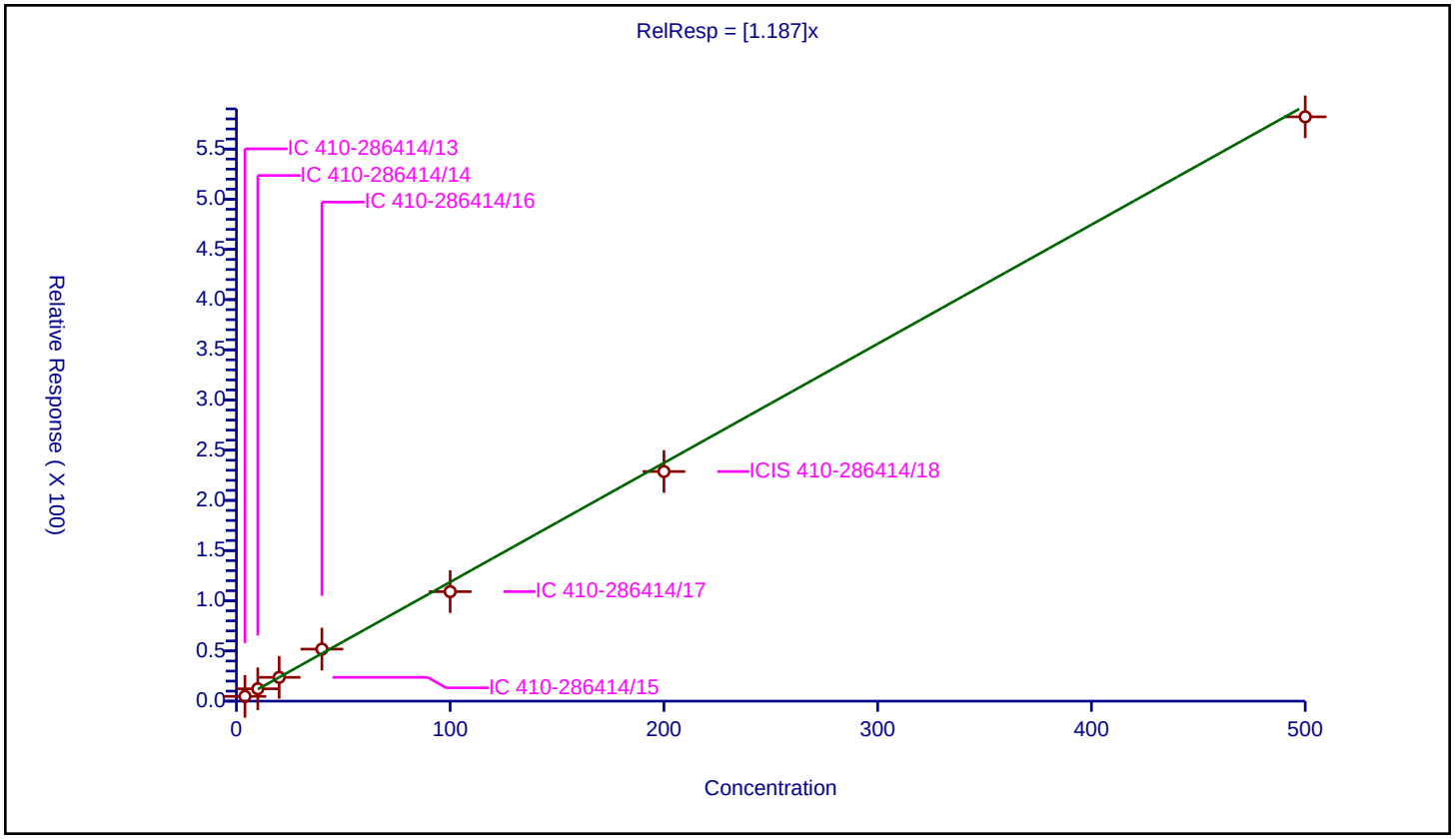
Curve Coefficients

Intercept:	0
Slope:	1.187

Error Coefficients

Standard Error:	746000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	4.0	4.789758	50.0	133180.0	1.19744	Y
2	IC 410-286414/14	10.0	12.289812	50.0	128635.0	1.228981	Y
3	IC 410-286414/15	20.0	23.704023	50.0	136943.0	1.185201	Y
4	IC 410-286414/16	40.0	51.823611	50.0	124917.0	1.29559	Y
5	IC 410-286414/17	100.0	109.095044	50.0	141819.0	1.09095	Y
6	ICIS 410-286414/18	200.0	228.757996	50.0	142576.0	1.14379	Y
7	IC 410-286414/19	500.0	582.098194	50.0	143695.0	1.164196	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

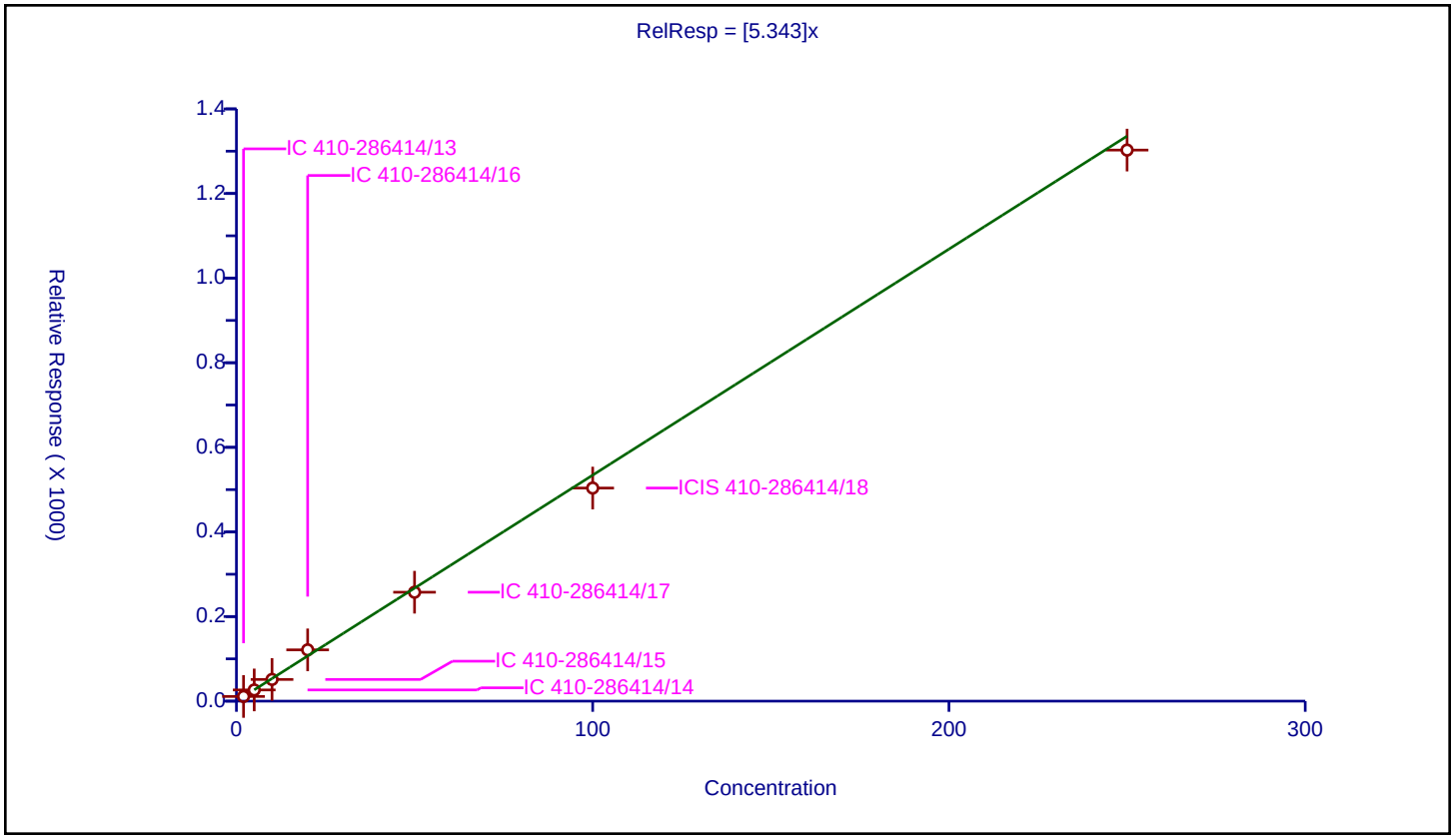
Curve Coefficients

Intercept:	0
Slope:	5.343

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	11.035065	50.0	133180.0	5.517533	Y
2	IC 410-286414/14	5.0	26.459362	50.0	128635.0	5.291872	Y
3	IC 410-286414/15	10.0	51.311129	50.0	136943.0	5.131113	Y
4	IC 410-286414/16	20.0	121.20528	50.0	124917.0	6.060264	Y
5	IC 410-286414/17	50.0	257.492649	50.0	141819.0	5.149853	Y
6	ICIS 410-286414/18	100.0	503.726083	50.0	142576.0	5.037261	Y
7	IC 410-286414/19	250.0	1302.684853	50.0	143695.0	5.210739	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

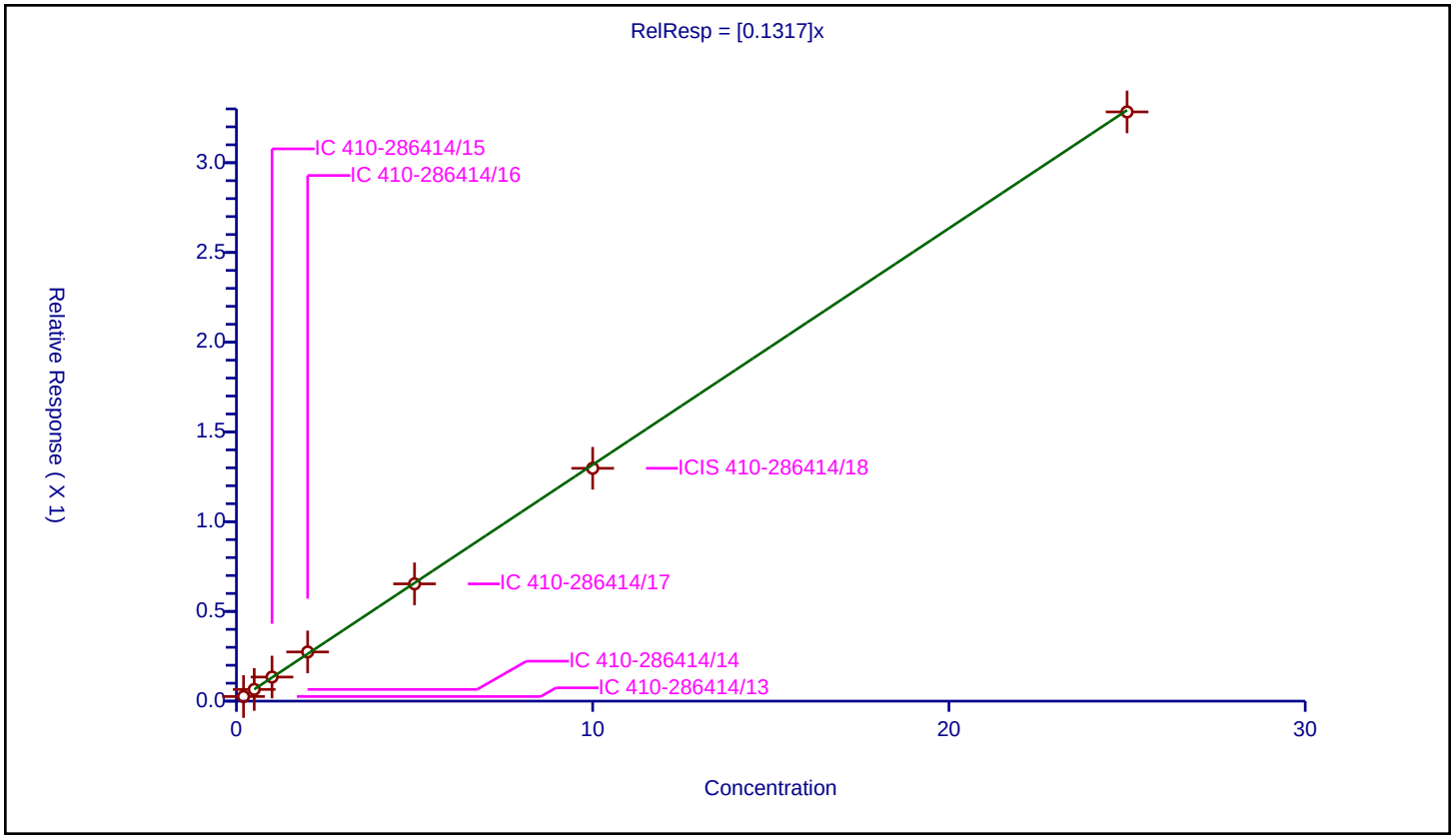
Curve Coefficients

Intercept:	0
Slope:	0.1317

Error Coefficients

Standard Error:	350000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.025686	10.0	2204666.0	0.128432	Y
2	IC 410-286414/14	0.5	0.065305	10.0	2229222.0	0.130611	Y
3	IC 410-286414/15	1.0	0.134195	10.0	2229967.0	0.134195	Y
4	IC 410-286414/16	2.0	0.274073	10.0	2244586.0	0.137036	Y
5	IC 410-286414/17	5.0	0.653452	10.0	2296832.0	0.13069	Y
6	ICIS 410-286414/18	10.0	1.297392	10.0	2328270.0	0.129739	Y
7	IC 410-286414/19	25.0	3.283171	10.0	2388919.0	0.131327	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

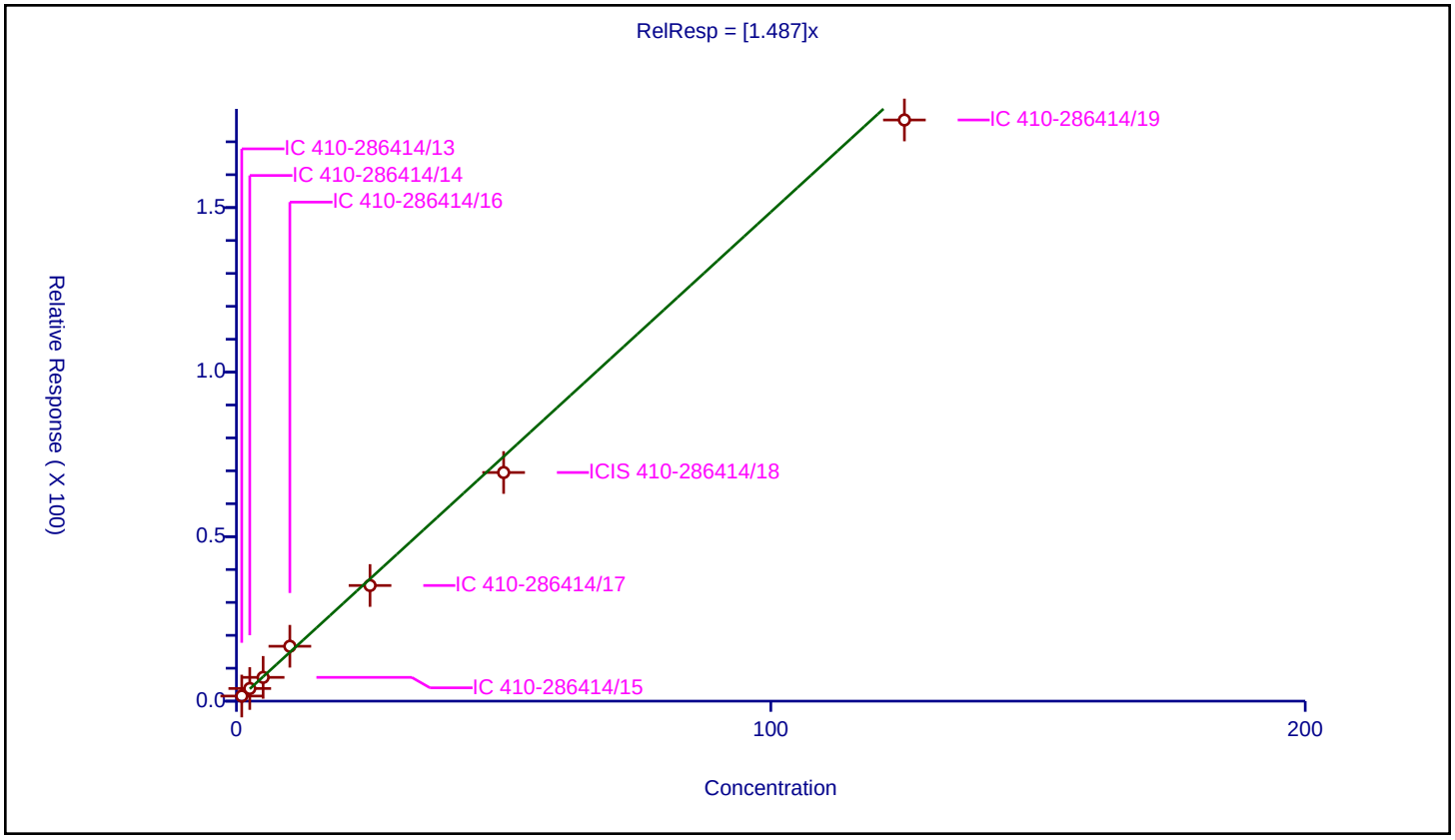
Curve Coefficients

Intercept:	0
Slope:	1.487

Error Coefficients

Standard Error:	227000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	1.0	1.548281	50.0	133180.0	1.548281	Y
2	IC 410-286414/14	2.5	3.839157	50.0	128635.0	1.535663	Y
3	IC 410-286414/15	5.0	7.225999	50.0	136943.0	1.4452	Y
4	IC 410-286414/16	10.0	16.678274	50.0	124917.0	1.667827	Y
5	IC 410-286414/17	25.0	35.153611	50.0	141819.0	1.406144	Y
6	ICIS 410-286414/18	50.0	69.49206	50.0	142576.0	1.389841	Y
7	IC 410-286414/19	125.0	176.631407	50.0	143695.0	1.413051	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

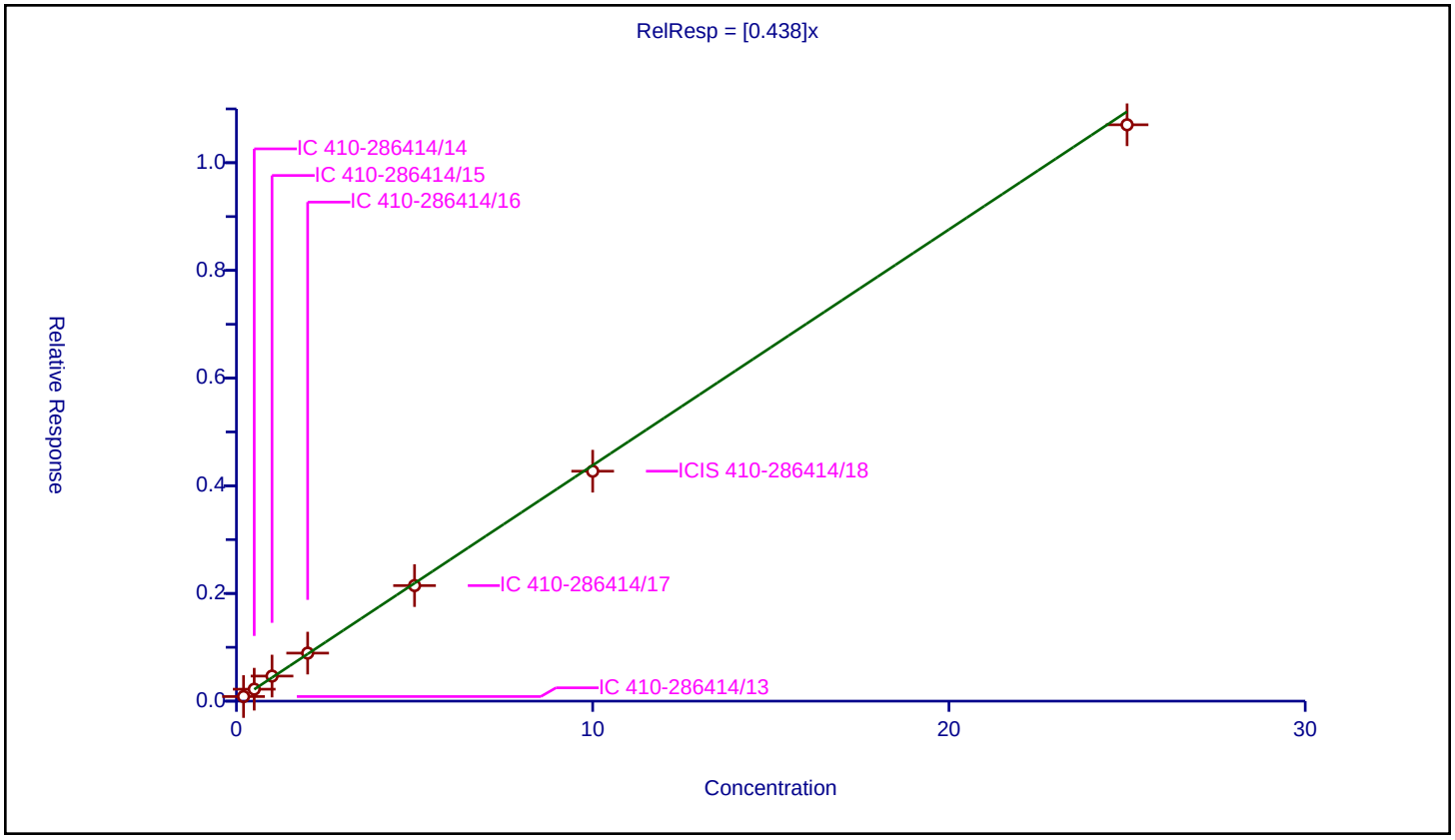
Curve Coefficients

Intercept:	0
Slope:	0.438

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.085178	10.0	2204666.0	0.425892	Y
2	IC 410-286414/14	0.5	0.222051	10.0	2229222.0	0.444101	Y
3	IC 410-286414/15	1.0	0.465536	10.0	2229967.0	0.465536	Y
4	IC 410-286414/16	2.0	0.892035	10.0	2244586.0	0.446018	Y
5	IC 410-286414/17	5.0	2.146182	10.0	2296832.0	0.429236	Y
6	ICIS 410-286414/18	10.0	4.27063	10.0	2328270.0	0.427063	Y
7	IC 410-286414/19	25.0	10.705311	10.0	2388919.0	0.428212	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

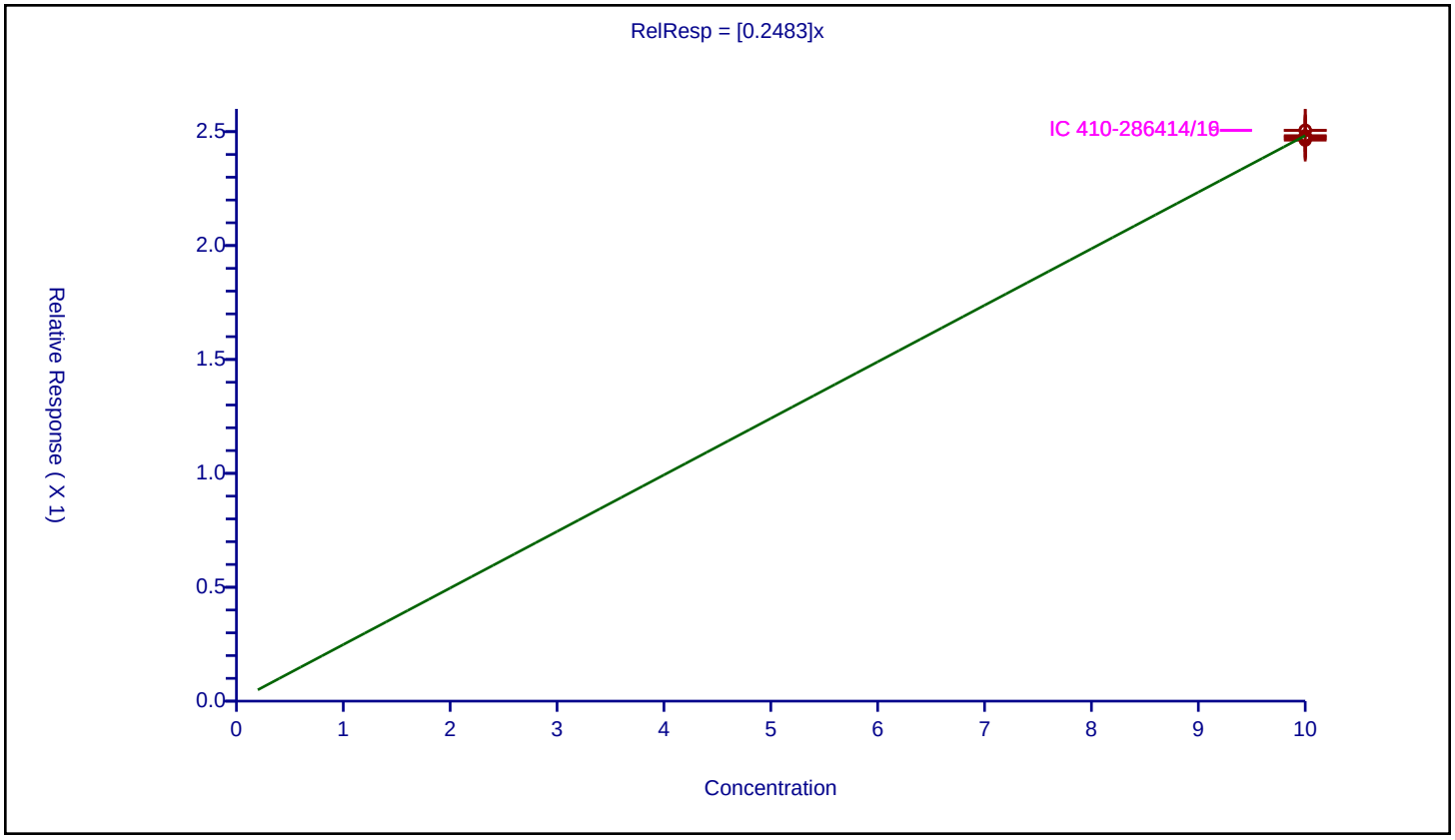
Curve Coefficients

Intercept:	0
Slope:	0.2483

Error Coefficients

Standard Error:	610000
Relative Standard Error:	0.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	2.462759	10.0	2204666.0	0.246276	Y
2	IC 410-286414/14	10.0	2.482651	10.0	2229222.0	0.248265	Y
3	IC 410-286414/15	10.0	2.473835	10.0	2229967.0	0.247383	Y
4	IC 410-286414/16	10.0	2.5055	10.0	2244586.0	0.25055	Y
5	IC 410-286414/17	10.0	2.479319	10.0	2296832.0	0.247932	Y
6	ICIS 410-286414/18	10.0	2.468726	10.0	2328270.0	0.246873	Y
7	IC 410-286414/19	10.0	2.506113	10.0	2388919.0	0.250611	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

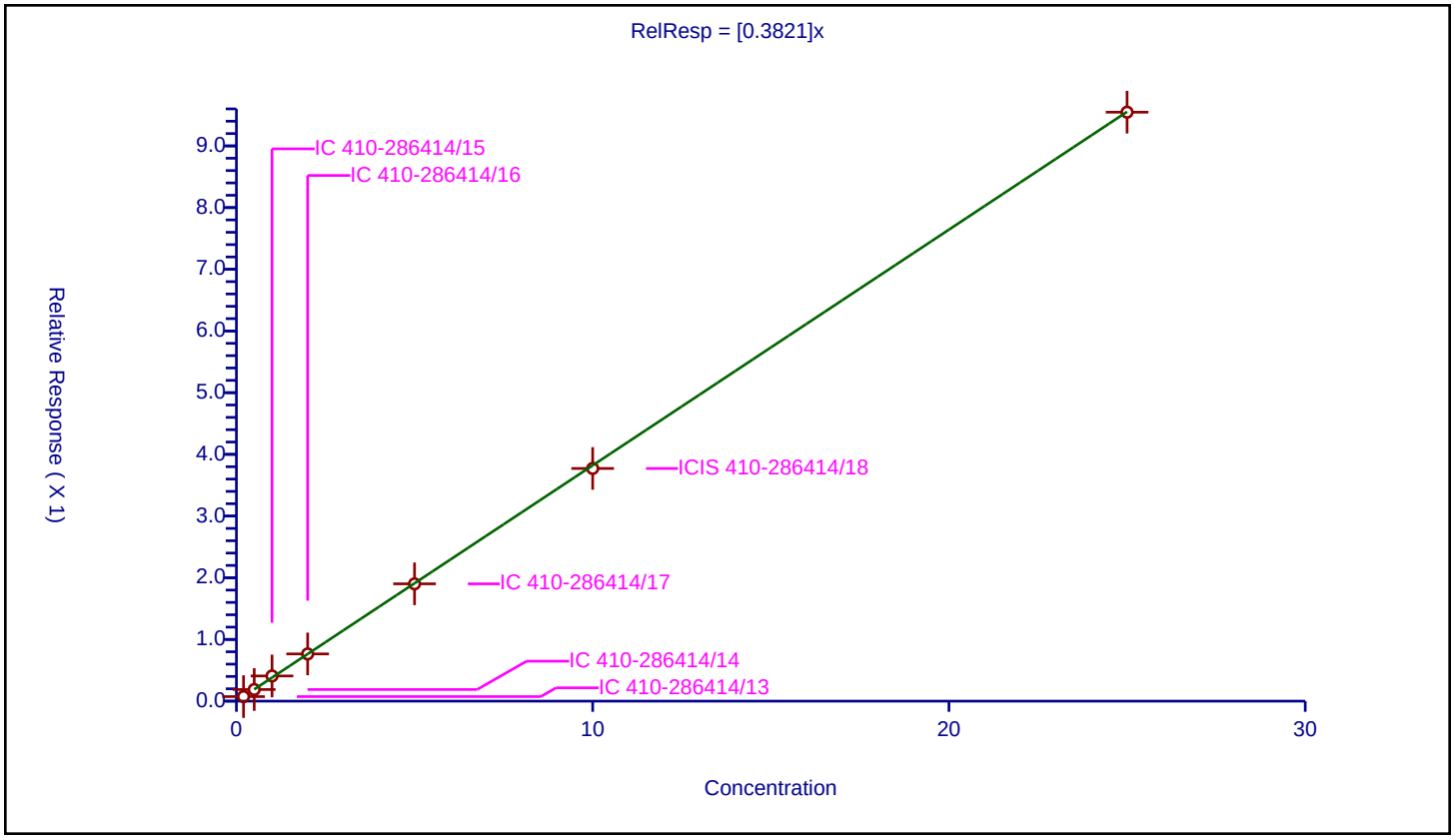
Curve Coefficients

Intercept:	0
Slope:	0.3821

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.073639	10.0	2204666.0	0.368196	Y
2	IC 410-286414/14	0.5	0.188232	10.0	2229222.0	0.376463	Y
3	IC 410-286414/15	1.0	0.408338	10.0	2229967.0	0.408338	Y
4	IC 410-286414/16	2.0	0.765295	10.0	2244586.0	0.382647	Y
5	IC 410-286414/17	5.0	1.90148	10.0	2296832.0	0.380296	Y
6	ICIS 410-286414/18	10.0	3.77156	10.0	2328270.0	0.377156	Y
7	IC 410-286414/19	25.0	9.546565	10.0	2388919.0	0.381863	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

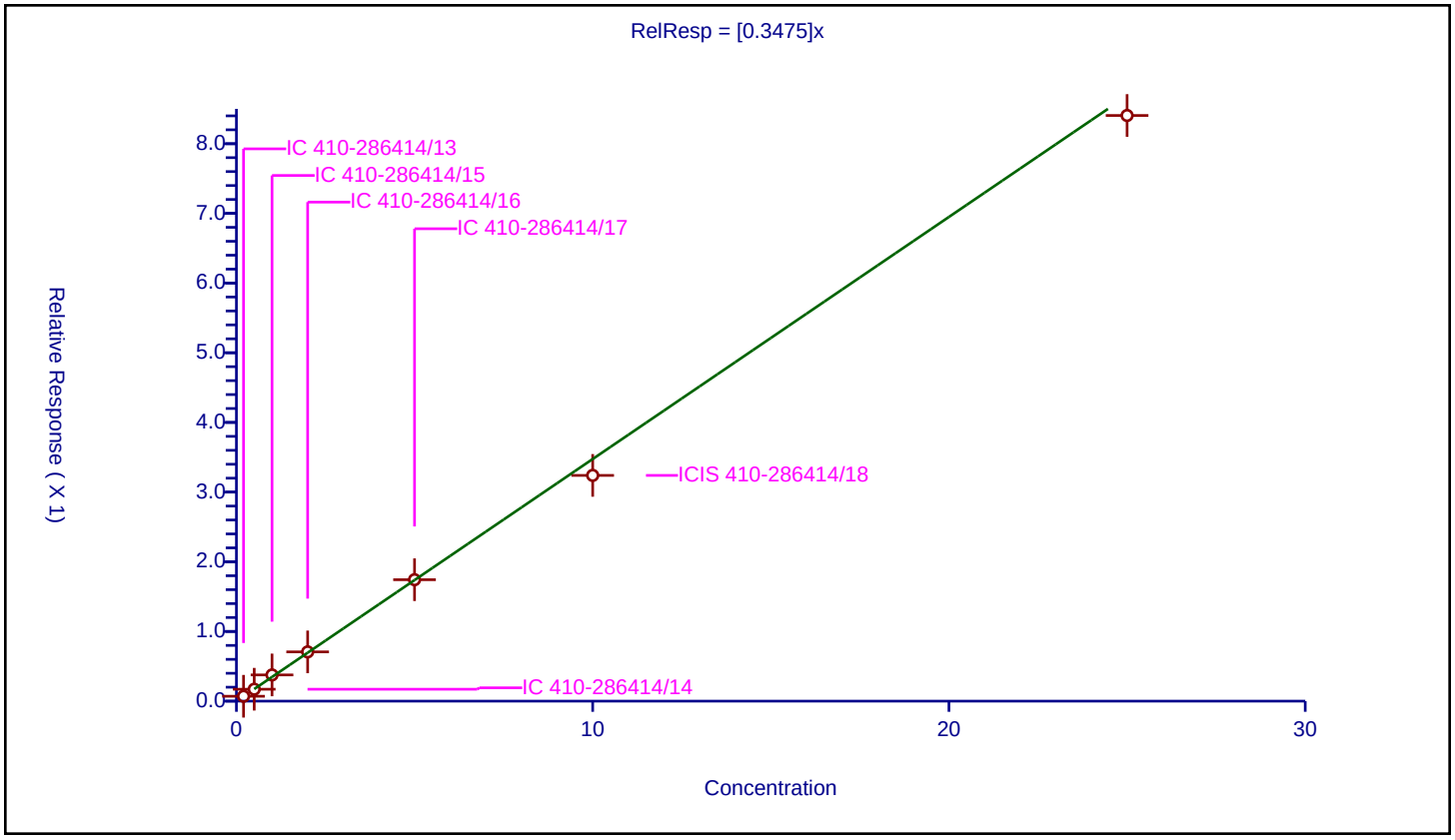
Curve Coefficients

Intercept:	0
Slope:	0.3475

Error Coefficients

Standard Error:	894000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.070283	10.0	2204666.0	0.351414	Y
2	IC 410-286414/14	0.5	0.171203	10.0	2229222.0	0.342406	Y
3	IC 410-286414/15	1.0	0.376171	10.0	2229967.0	0.376171	Y
4	IC 410-286414/16	2.0	0.706897	10.0	2244586.0	0.353448	Y
5	IC 410-286414/17	5.0	1.743014	10.0	2296832.0	0.348603	Y
6	ICIS 410-286414/18	10.0	3.239968	10.0	2328270.0	0.323997	Y
7	IC 410-286414/19	25.0	8.405065	10.0	2388919.0	0.336203	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

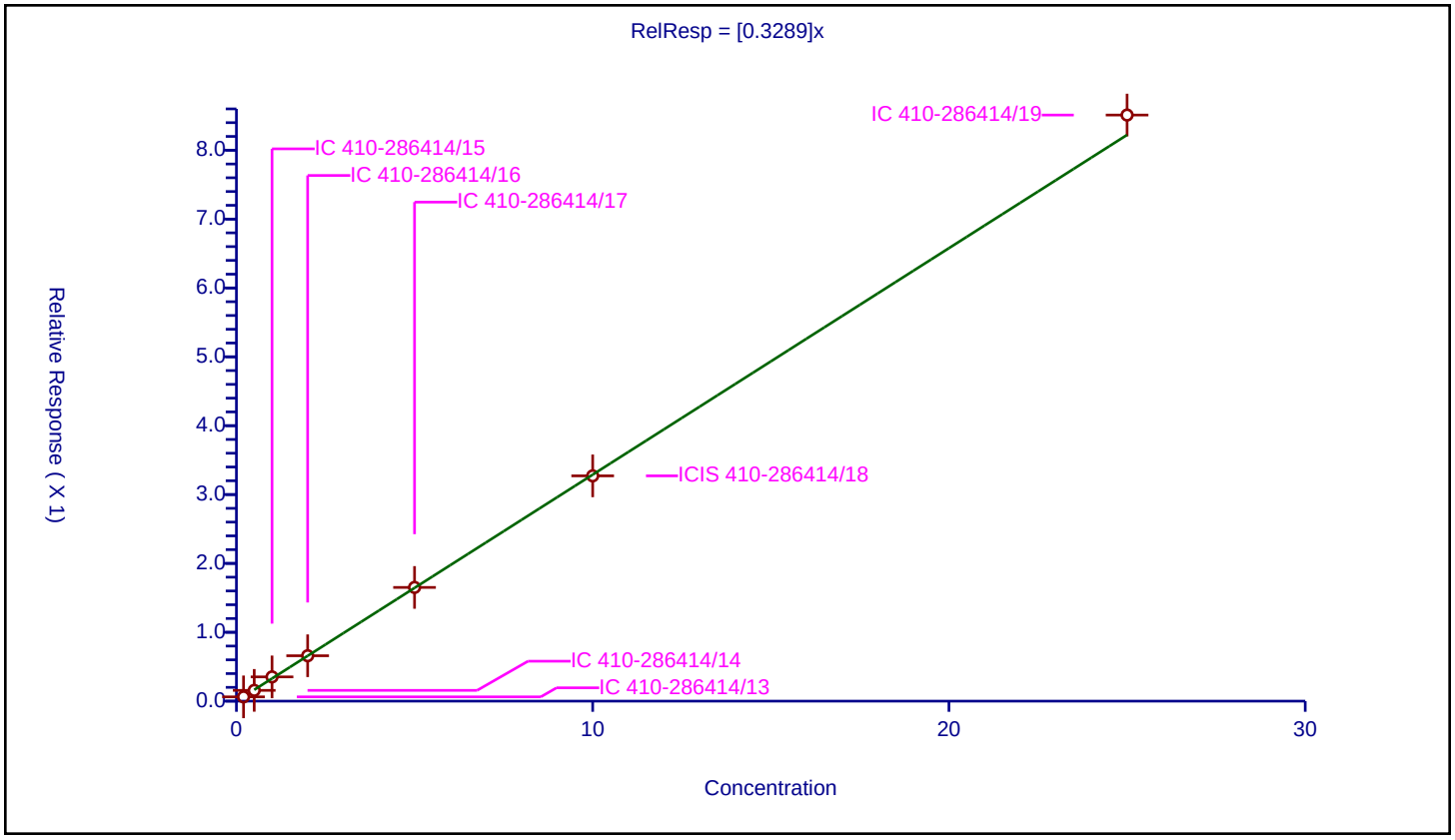
Curve Coefficients

Intercept:	0
Slope:	0.3289

Error Coefficients

Standard Error:	902000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.061955	10.0	2204666.0	0.309775	Y
2	IC 410-286414/14	0.5	0.156521	10.0	2229222.0	0.313042	Y
3	IC 410-286414/15	1.0	0.352041	10.0	2229967.0	0.352041	Y
4	IC 410-286414/16	2.0	0.659061	10.0	2244586.0	0.329531	Y
5	IC 410-286414/17	5.0	1.651296	10.0	2296832.0	0.330259	Y
6	ICIS 410-286414/18	10.0	3.271296	10.0	2328270.0	0.32713	Y
7	IC 410-286414/19	25.0	8.510674	10.0	2388919.0	0.340427	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

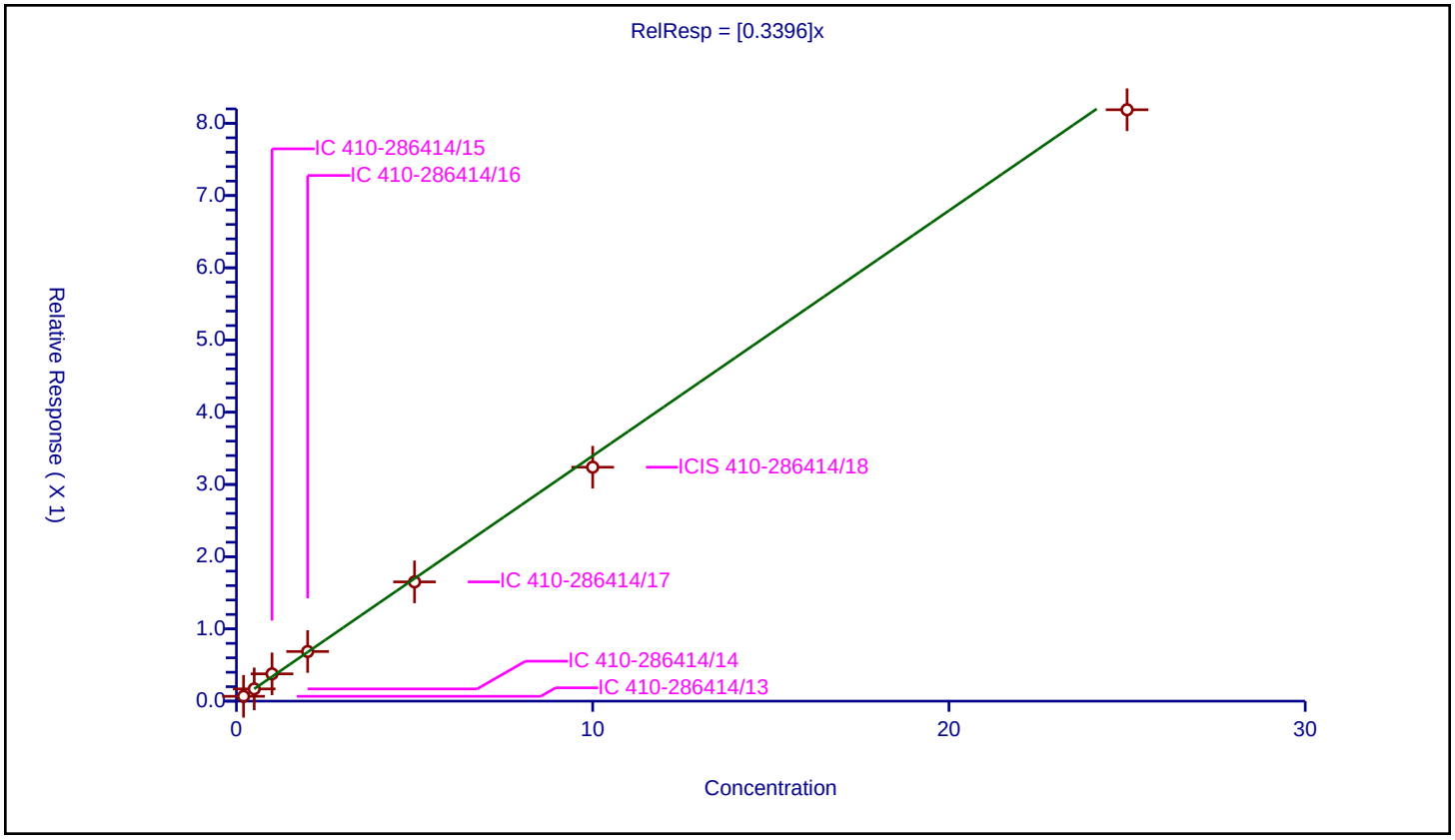
Curve Coefficients

Intercept:	0
Slope:	0.3396

Error Coefficients

Standard Error:	873000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.066885	10.0	2204666.0	0.334427	Y
2	IC 410-286414/14	0.5	0.169543	10.0	2229222.0	0.339087	Y
3	IC 410-286414/15	1.0	0.378328	10.0	2229967.0	0.378328	Y
4	IC 410-286414/16	2.0	0.687111	10.0	2244586.0	0.343556	Y
5	IC 410-286414/17	5.0	1.651092	10.0	2296832.0	0.330218	Y
6	ICIS 410-286414/18	10.0	3.239079	10.0	2328270.0	0.323908	Y
7	IC 410-286414/19	25.0	8.188306	10.0	2388919.0	0.327532	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

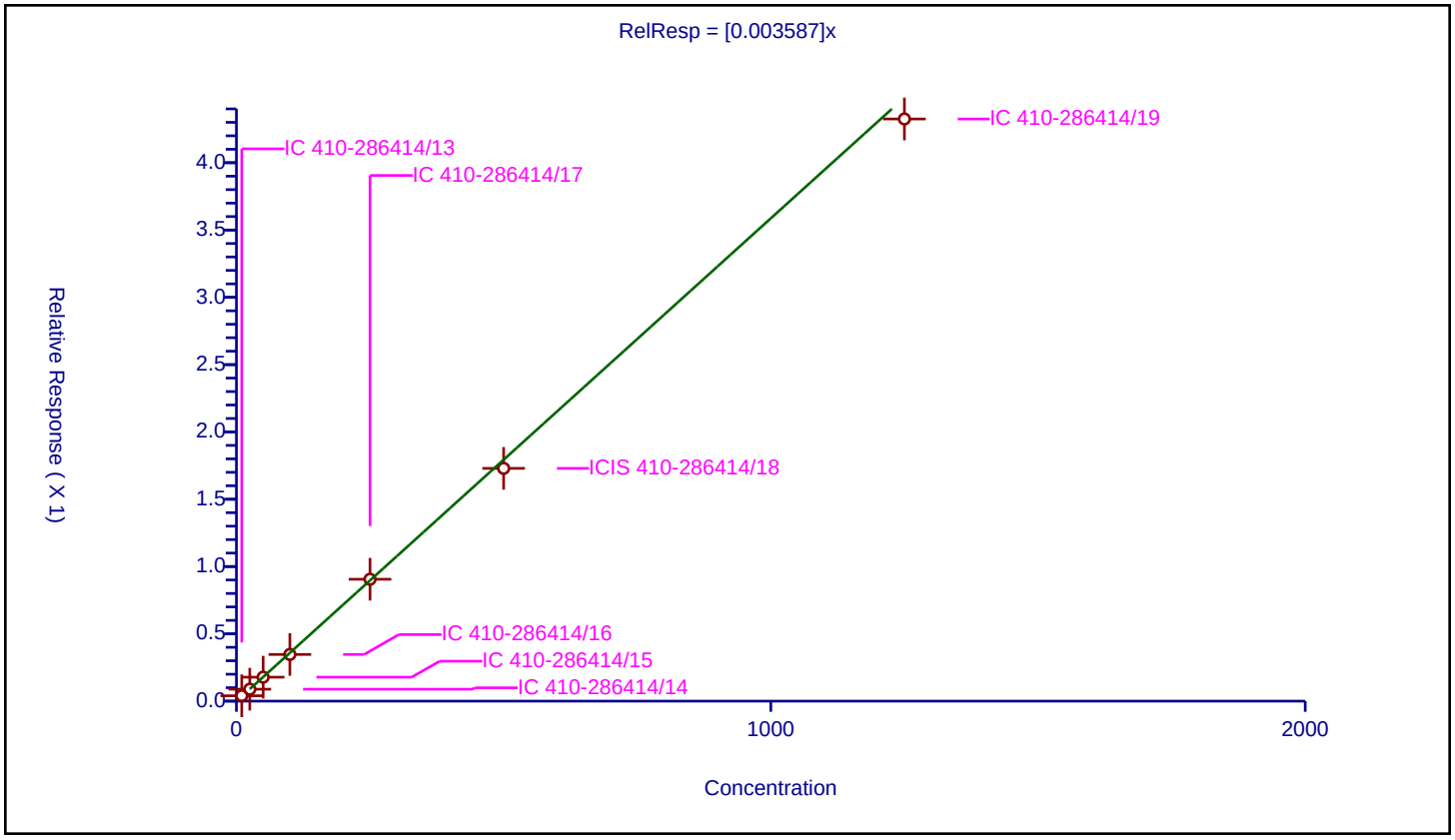
Curve Coefficients

Intercept:	0
Slope:	0.003587

Error Coefficients

Standard Error:	462000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	0.039943	10.0	2204666.0	0.003994	Y
2	IC 410-286414/14	25.0	0.088681	10.0	2229222.0	0.003547	Y
3	IC 410-286414/15	50.0	0.177931	10.0	2229967.0	0.003559	Y
4	IC 410-286414/16	100.0	0.346799	10.0	2244586.0	0.003468	Y
5	IC 410-286414/17	250.0	0.905552	10.0	2296832.0	0.003622	Y
6	ICIS 410-286414/18	500.0	1.72925	10.0	2328270.0	0.003458	Y
7	IC 410-286414/19	1250.0	4.325044	10.0	2388919.0	0.00346	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

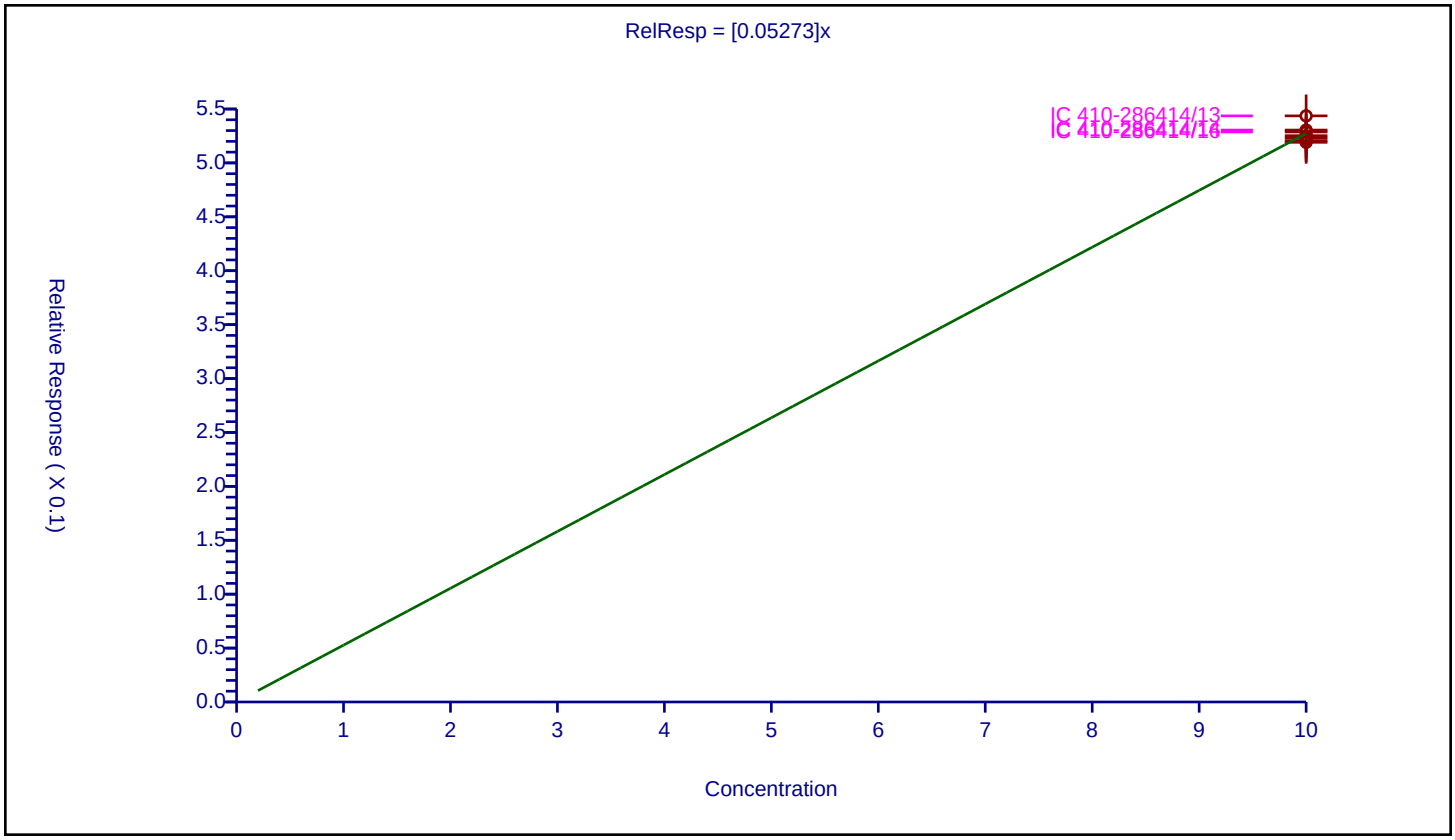
Curve Coefficients

Intercept:	0
Slope:	0.05273

Error Coefficients

Standard Error:	130000
Relative Standard Error:	1.6
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	0.543652	10.0	2204666.0	0.054365	Y
2	IC 410-286414/14	10.0	0.530477	10.0	2229222.0	0.053048	Y
3	IC 410-286414/15	10.0	0.525272	10.0	2229967.0	0.052527	Y
4	IC 410-286414/16	10.0	0.528721	10.0	2244586.0	0.052872	Y
5	IC 410-286414/17	10.0	0.52309	10.0	2296832.0	0.052309	Y
6	ICIS 410-286414/18	10.0	0.519098	10.0	2328270.0	0.05191	Y
7	IC 410-286414/19	10.0	0.520654	10.0	2388919.0	0.052065	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

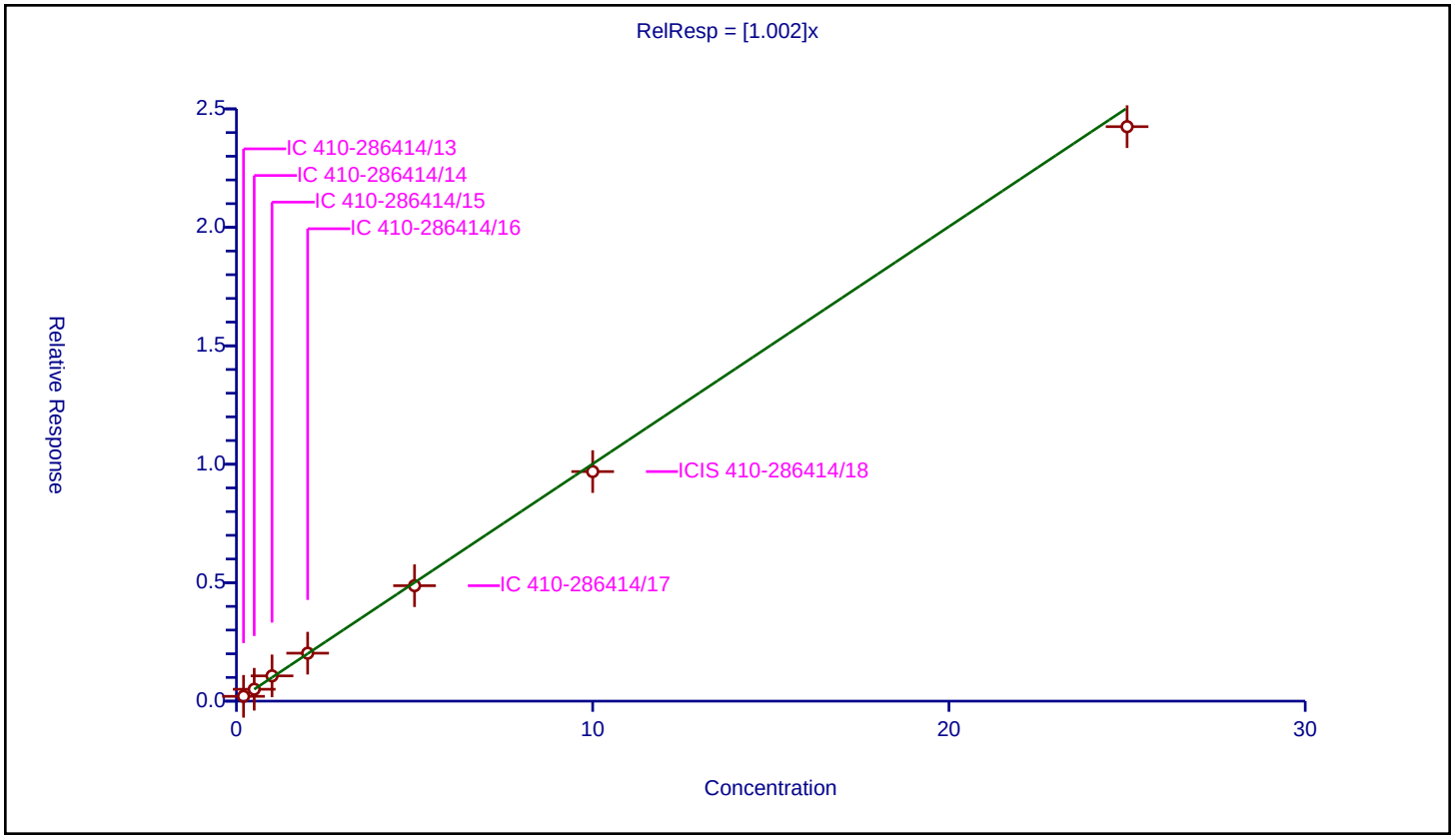
Curve Coefficients

Intercept:	0
Slope:	1.002

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.202747	10.0	2204666.0	1.013736	Y
2	IC 410-286414/14	0.5	0.50222	10.0	2229222.0	1.00444	Y
3	IC 410-286414/15	1.0	1.066401	10.0	2229967.0	1.066401	Y
4	IC 410-286414/16	2.0	2.024391	10.0	2244586.0	1.012196	Y
5	IC 410-286414/17	5.0	4.873604	10.0	2296832.0	0.974721	Y
6	ICIS 410-286414/18	10.0	9.690758	10.0	2328270.0	0.969076	Y
7	IC 410-286414/19	25.0	24.249596	10.0	2388919.0	0.969984	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

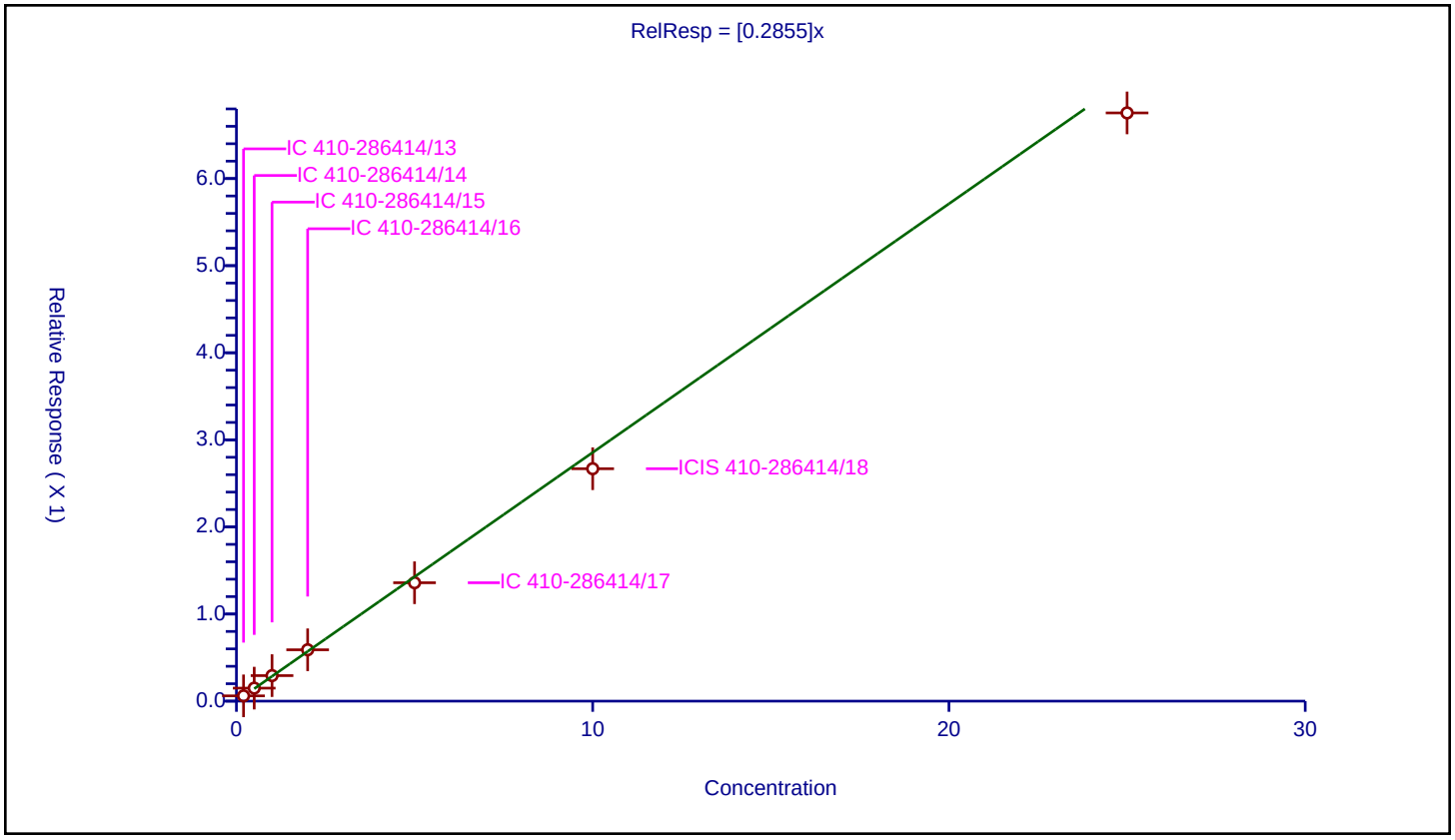
Curve Coefficients

Intercept:	0
Slope:	0.2855

Error Coefficients

Standard Error:	720000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.060558	10.0	2204666.0	0.30279	Y
2	IC 410-286414/14	0.5	0.149528	10.0	2229222.0	0.299055	Y
3	IC 410-286414/15	1.0	0.293049	10.0	2229967.0	0.293049	Y
4	IC 410-286414/16	2.0	0.589757	10.0	2244586.0	0.294878	Y
5	IC 410-286414/17	5.0	1.35952	10.0	2296832.0	0.271904	Y
6	ICIS 410-286414/18	10.0	2.668556	10.0	2328270.0	0.266856	Y
7	IC 410-286414/19	25.0	6.75385	10.0	2388919.0	0.270154	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

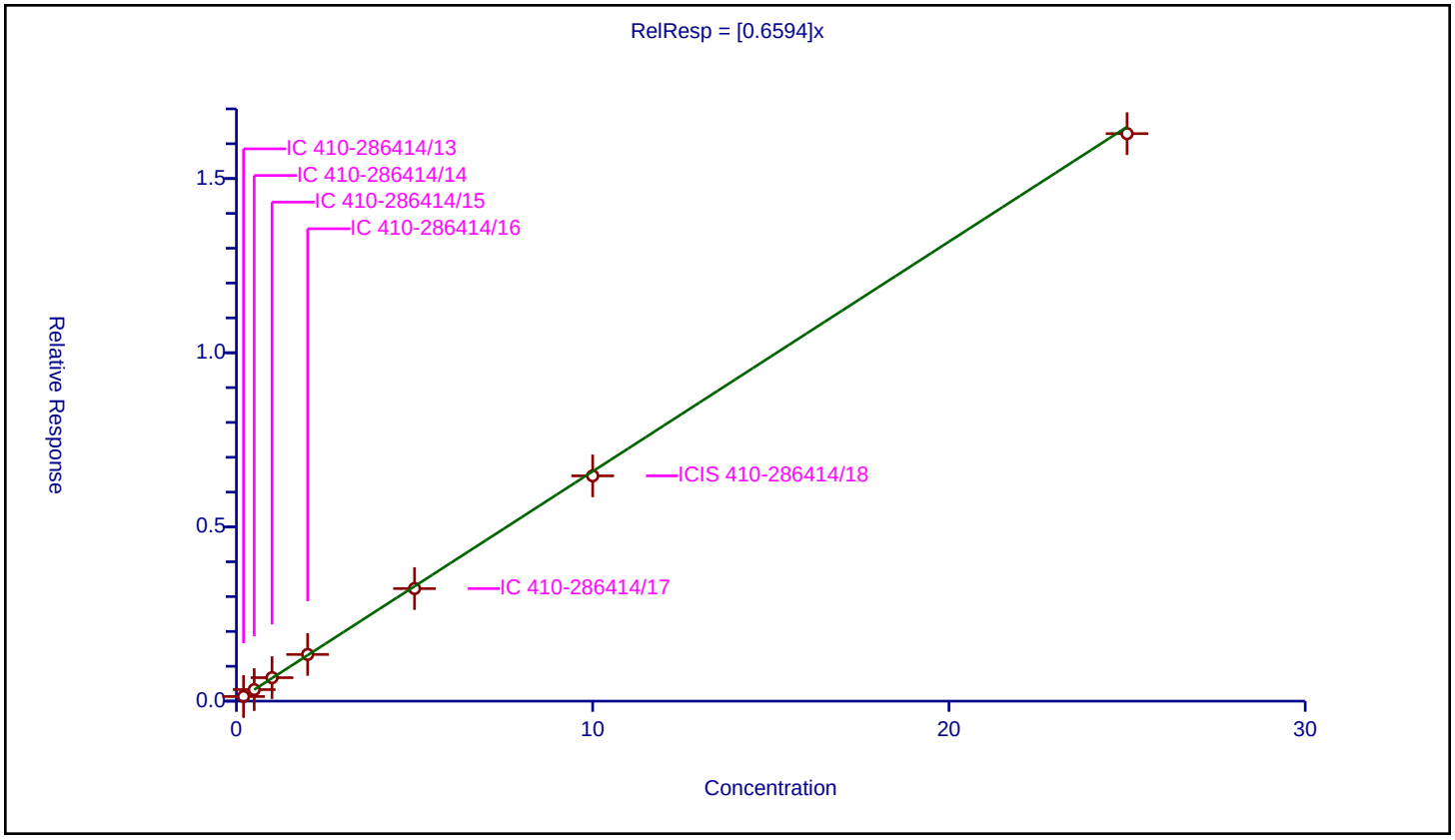
Curve Coefficients

Intercept:	0
Slope:	0.6594

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.132904	10.0	2204666.0	0.664522	Y
2	IC 410-286414/14	0.5	0.331084	10.0	2229222.0	0.662168	Y
3	IC 410-286414/15	1.0	0.674104	10.0	2229967.0	0.674104	Y
4	IC 410-286414/16	2.0	1.34084	10.0	2244586.0	0.67042	Y
5	IC 410-286414/17	5.0	3.231547	10.0	2296832.0	0.646309	Y
6	ICIS 410-286414/18	10.0	6.466694	10.0	2328270.0	0.646669	Y
7	IC 410-286414/19	25.0	16.289749	10.0	2388919.0	0.65159	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

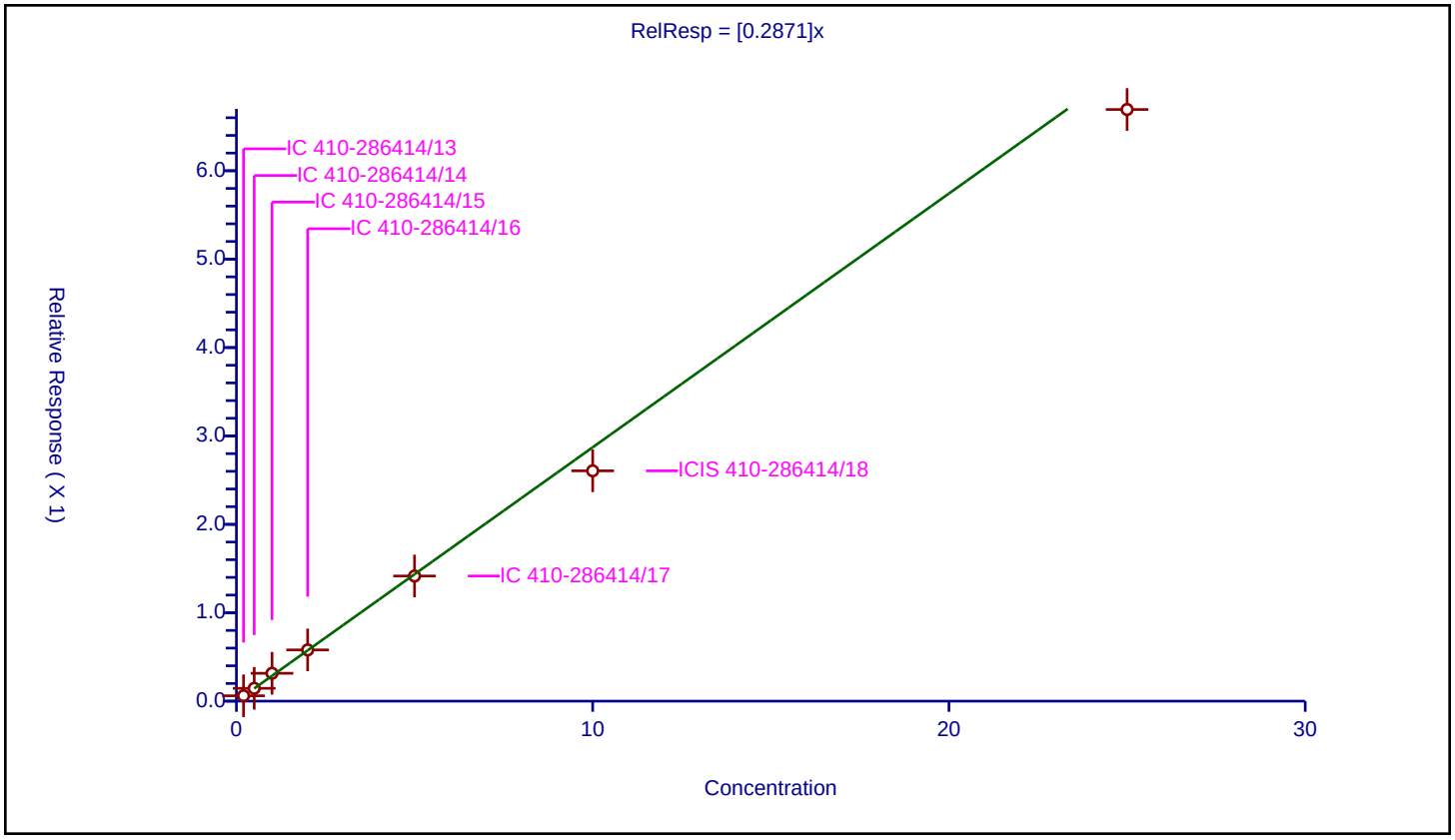
Curve Coefficients

Intercept:	0
Slope:	0.2871

Error Coefficients

Standard Error:	713000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.060717	10.0	2204666.0	0.303583	Y
2	IC 410-286414/14	0.5	0.145158	10.0	2229222.0	0.290317	Y
3	IC 410-286414/15	1.0	0.314919	10.0	2229967.0	0.314919	Y
4	IC 410-286414/16	2.0	0.579497	10.0	2244586.0	0.289748	Y
5	IC 410-286414/17	5.0	1.41558	10.0	2296832.0	0.283116	Y
6	ICIS 410-286414/18	10.0	2.605441	10.0	2328270.0	0.260544	Y
7	IC 410-286414/19	25.0	6.693069	10.0	2388919.0	0.267723	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

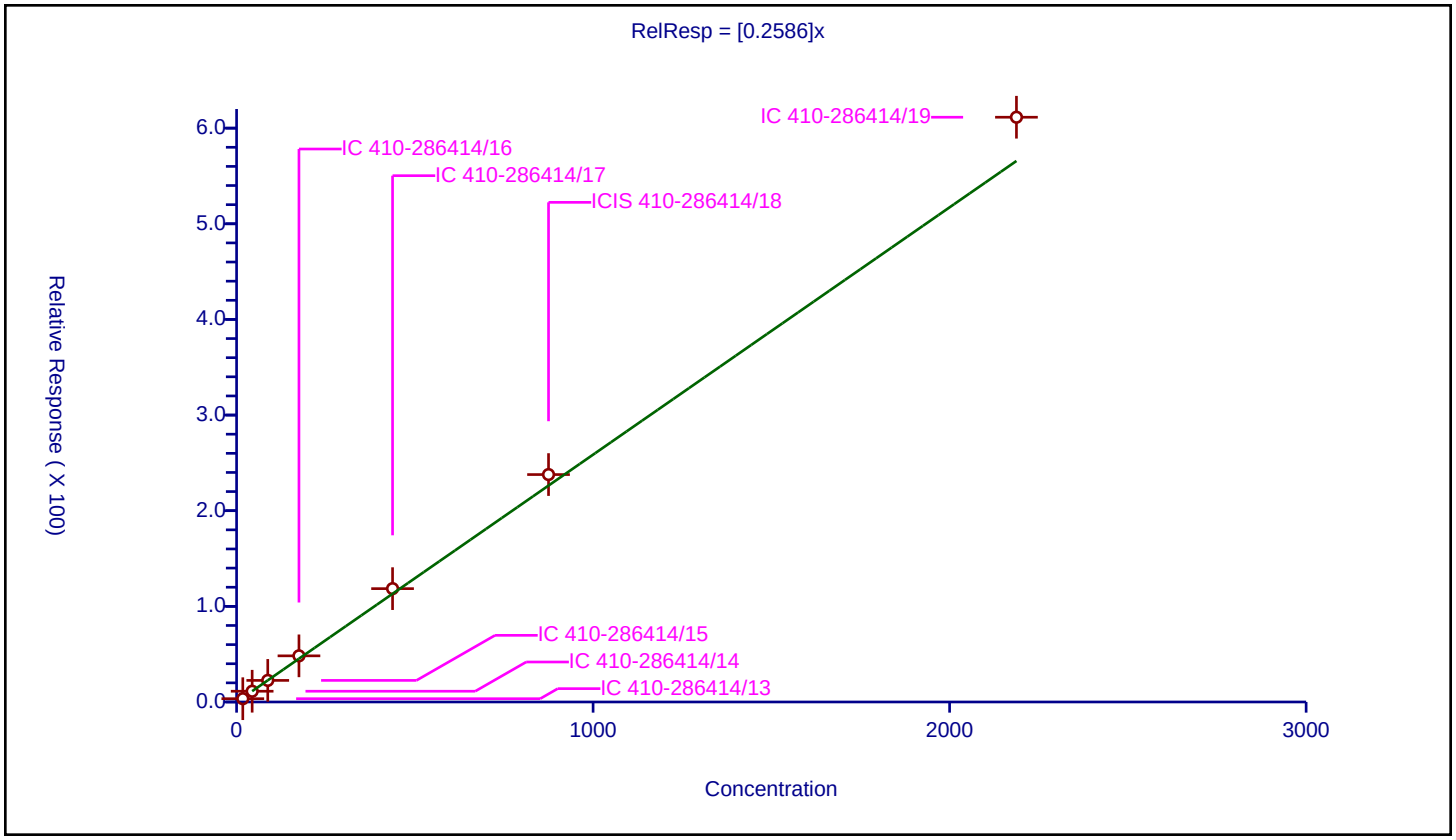
Curve Coefficients

Intercept:	0
Slope:	0.2586

Error Coefficients

Standard Error:	783000
Relative Standard Error:	10.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	17.5	3.454347	50.0	133180.0	0.197391	Y
2	IC 410-286414/14	43.75	11.242663	50.0	128635.0	0.256975	Y
3	IC 410-286414/15	87.5	22.567784	50.0	136943.0	0.257918	Y
4	IC 410-286414/16	175.0	48.251639	50.0	124917.0	0.275724	Y
5	IC 410-286414/17	437.5	118.524669	50.0	141819.0	0.270914	Y
6	ICIS 410-286414/18	875.0	237.79493	50.0	142576.0	0.271766	Y
7	IC 410-286414/19	2187.5	611.42037	50.0	143695.0	0.279506	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

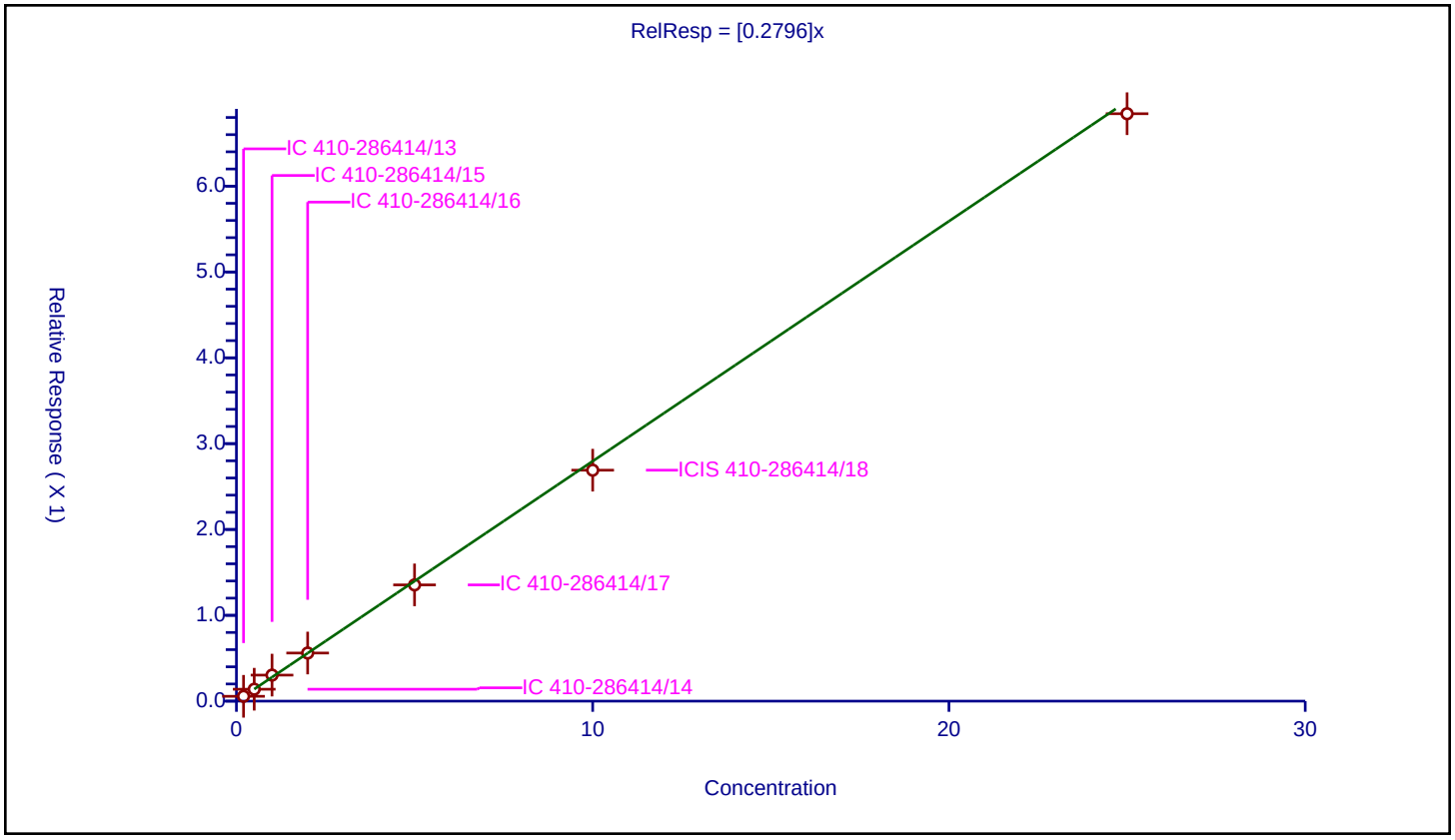
Curve Coefficients

Intercept:	0
Slope:	0.2796

Error Coefficients

Standard Error:	728000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.056448	10.0	2204666.0	0.282242	Y
2	IC 410-286414/14	0.5	0.138712	10.0	2229222.0	0.277424	Y
3	IC 410-286414/15	1.0	0.303327	10.0	2229967.0	0.303327	Y
4	IC 410-286414/16	2.0	0.560451	10.0	2244586.0	0.280225	Y
5	IC 410-286414/17	5.0	1.354322	10.0	2296832.0	0.270864	Y
6	ICIS 410-286414/18	10.0	2.690779	10.0	2328270.0	0.269078	Y
7	IC 410-286414/19	25.0	6.843911	10.0	2388919.0	0.273756	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

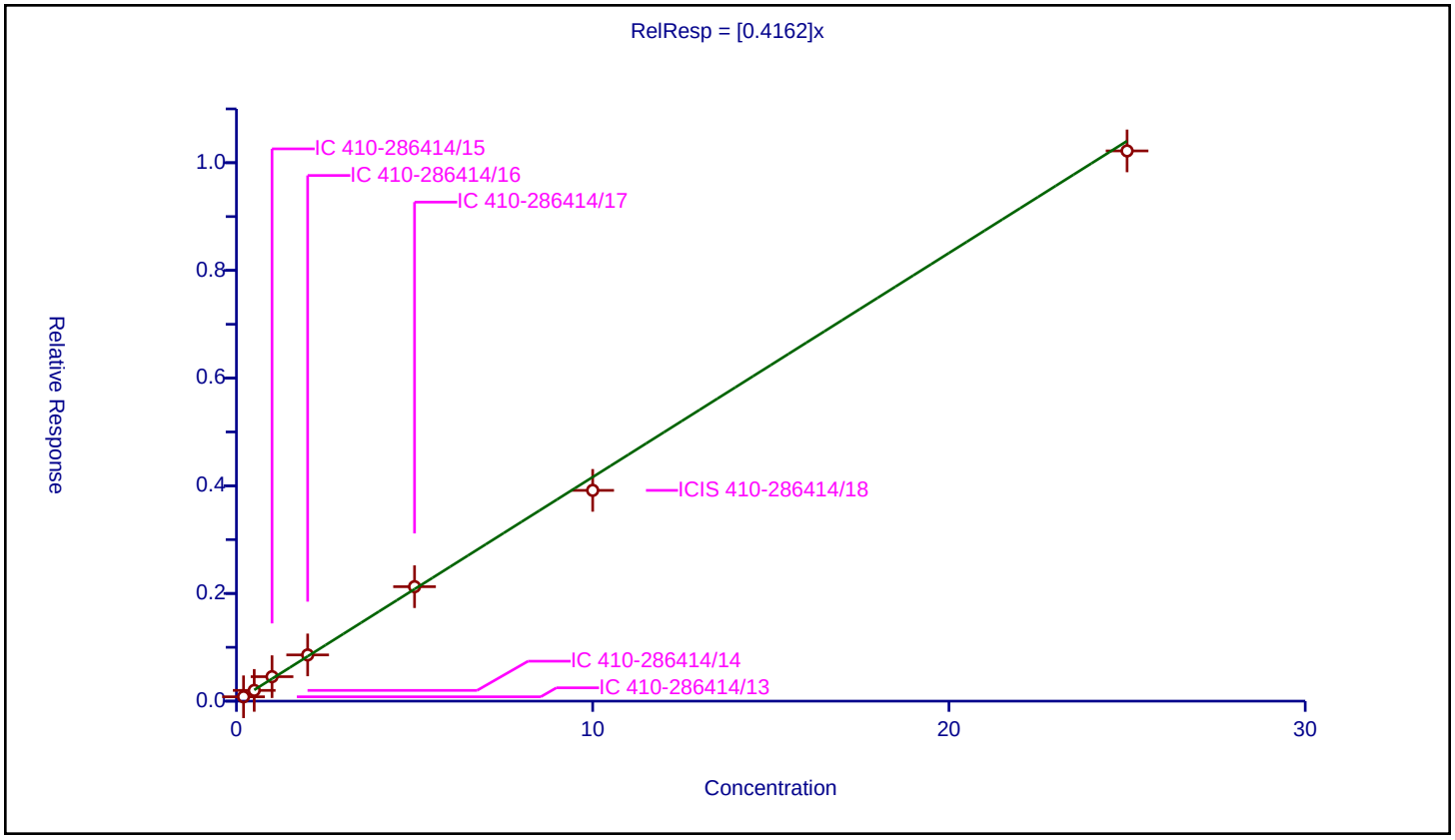
Curve Coefficients

Intercept:	0
Slope:	0.4162

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.080906	10.0	2204666.0	0.404528	Y
2	IC 410-286414/14	0.5	0.199837	10.0	2229222.0	0.399673	Y
3	IC 410-286414/15	1.0	0.454217	10.0	2229967.0	0.454217	Y
4	IC 410-286414/16	2.0	0.858501	10.0	2244586.0	0.429251	Y
5	IC 410-286414/17	5.0	2.125767	10.0	2296832.0	0.425153	Y
6	ICIS 410-286414/18	10.0	3.914834	10.0	2328270.0	0.391483	Y
7	IC 410-286414/19	25.0	10.220058	10.0	2388919.0	0.408802	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

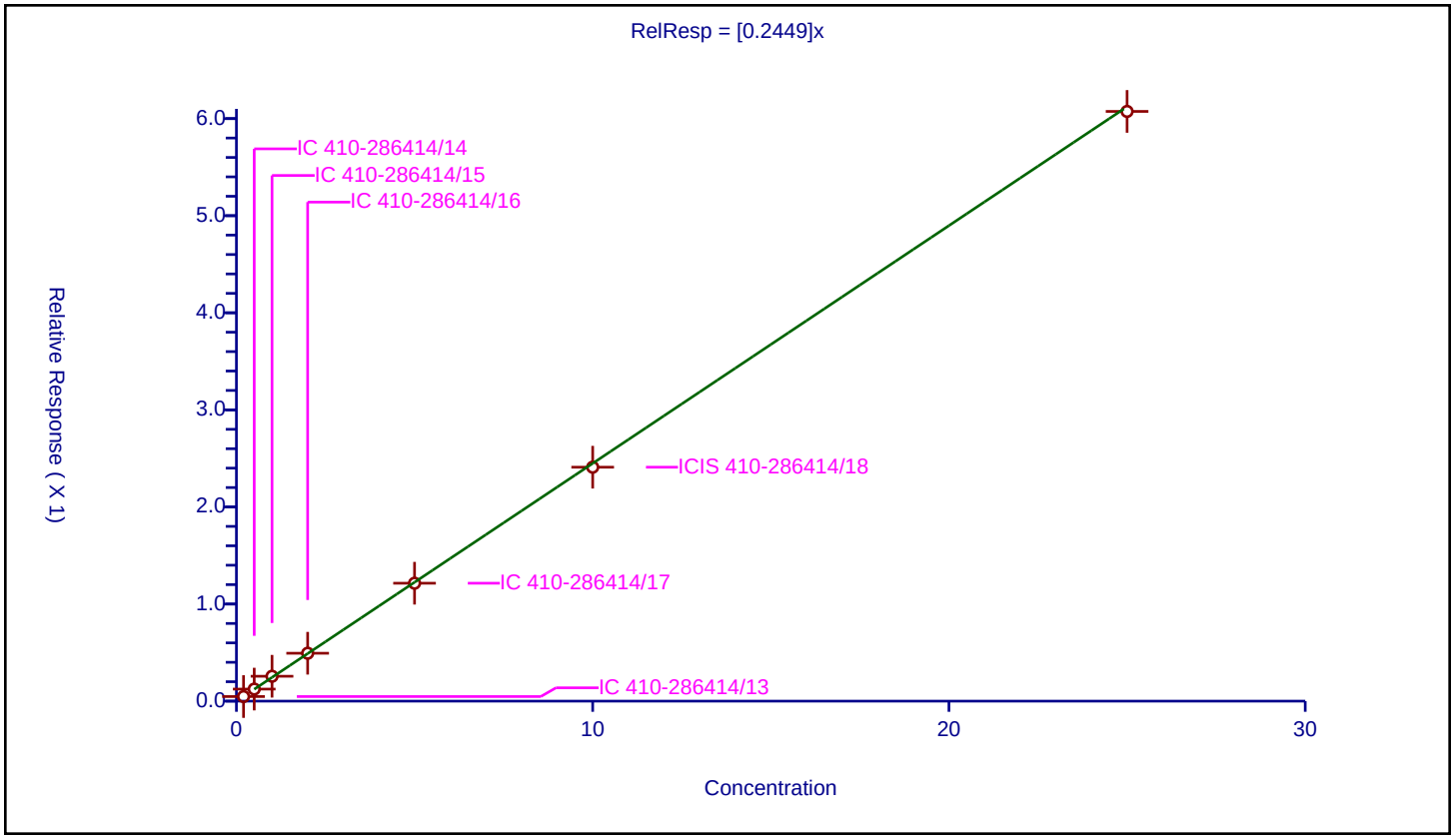
Curve Coefficients

Intercept:	0
Slope:	0.2449

Error Coefficients

Standard Error:	647000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.0472	10.0	2204666.0	0.235999	Y
2	IC 410-286414/14	0.5	0.124232	10.0	2229222.0	0.248463	Y
3	IC 410-286414/15	1.0	0.256246	10.0	2229967.0	0.256246	Y
4	IC 410-286414/16	2.0	0.493352	10.0	2244586.0	0.246676	Y
5	IC 410-286414/17	5.0	1.214547	10.0	2296832.0	0.242909	Y
6	ICIS 410-286414/18	10.0	2.409484	10.0	2328270.0	0.240948	Y
7	IC 410-286414/19	25.0	6.07381	10.0	2388919.0	0.242952	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

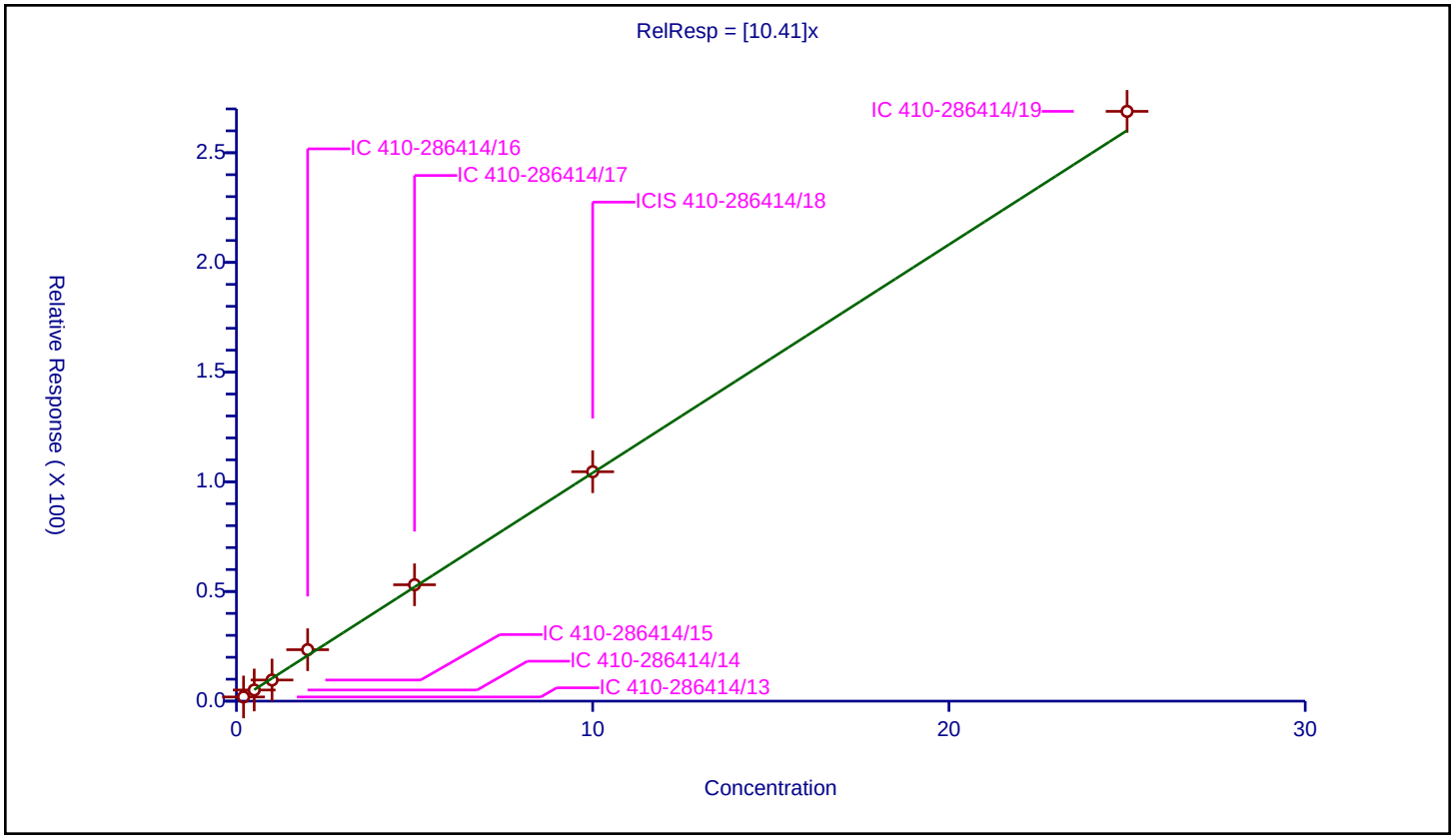
Curve Coefficients

Intercept:	0
Slope:	10.41

Error Coefficients

Standard Error:	345000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	1.898558	50.0	133180.0	9.492792	Y
2	IC 410-286414/14	0.5	5.084153	50.0	128635.0	10.168306	Y
3	IC 410-286414/15	1.0	9.637952	50.0	136943.0	9.637952	Y
4	IC 410-286414/16	2.0	23.44877	50.0	124917.0	11.724385	Y
5	IC 410-286414/17	5.0	53.053893	50.0	141819.0	10.610779	Y
6	ICIS 410-286414/18	10.0	104.585625	50.0	142576.0	10.458562	Y
7	IC 410-286414/19	25.0	268.876788	50.0	143695.0	10.755072	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

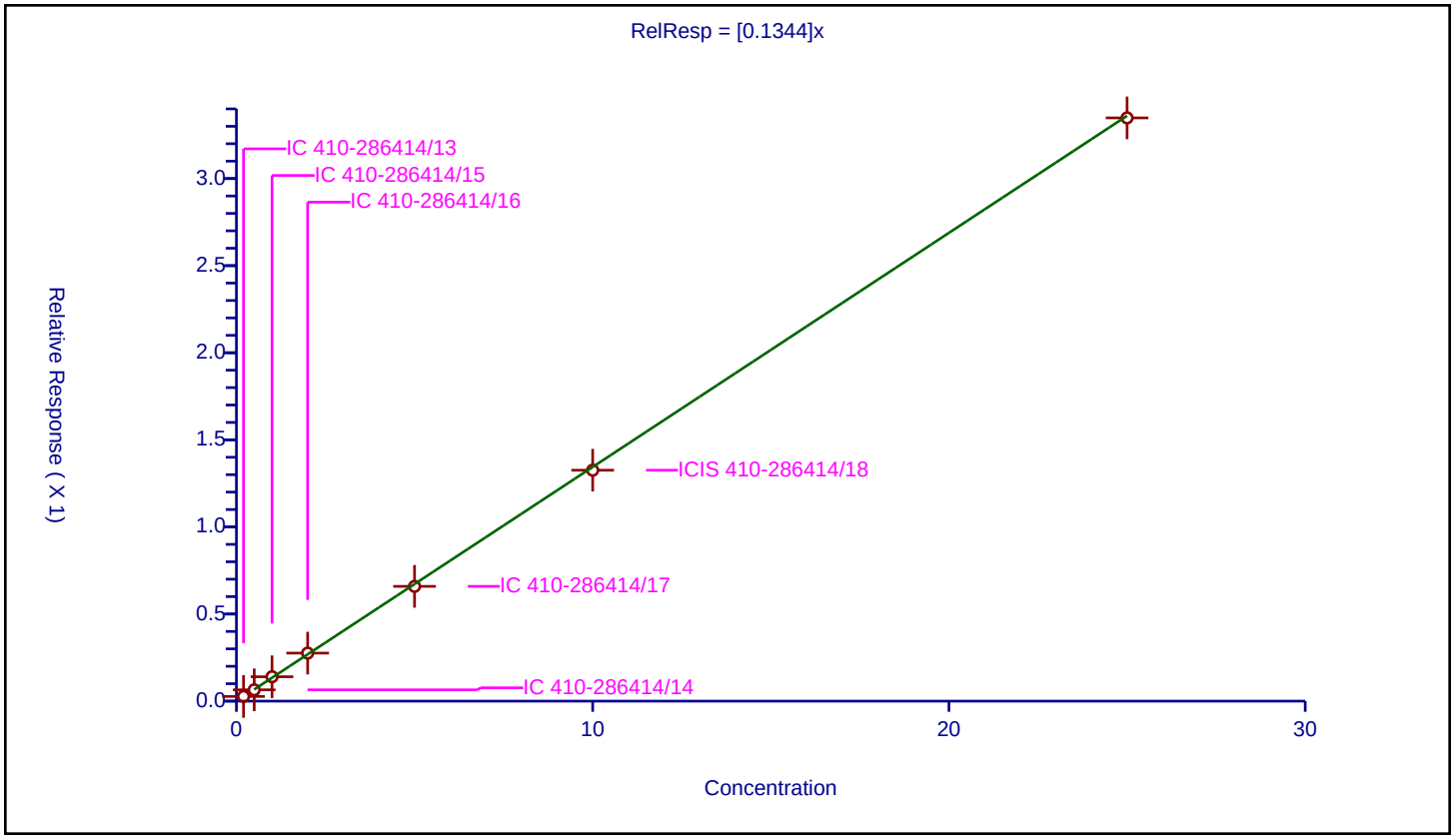
Curve Coefficients

Intercept:	0
Slope:	0.1344

Error Coefficients

Standard Error:	357000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.02697	10.0	2204666.0	0.13485	Y
2	IC 410-286414/14	0.5	0.06496	10.0	2229222.0	0.12992	Y
3	IC 410-286414/15	1.0	0.139966	10.0	2229967.0	0.139966	Y
4	IC 410-286414/16	2.0	0.27573	10.0	2244586.0	0.137865	Y
5	IC 410-286414/17	5.0	0.658995	10.0	2296832.0	0.131799	Y
6	ICIS 410-286414/18	10.0	1.325783	10.0	2328270.0	0.132578	Y
7	IC 410-286414/19	25.0	3.34833	10.0	2388919.0	0.133933	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

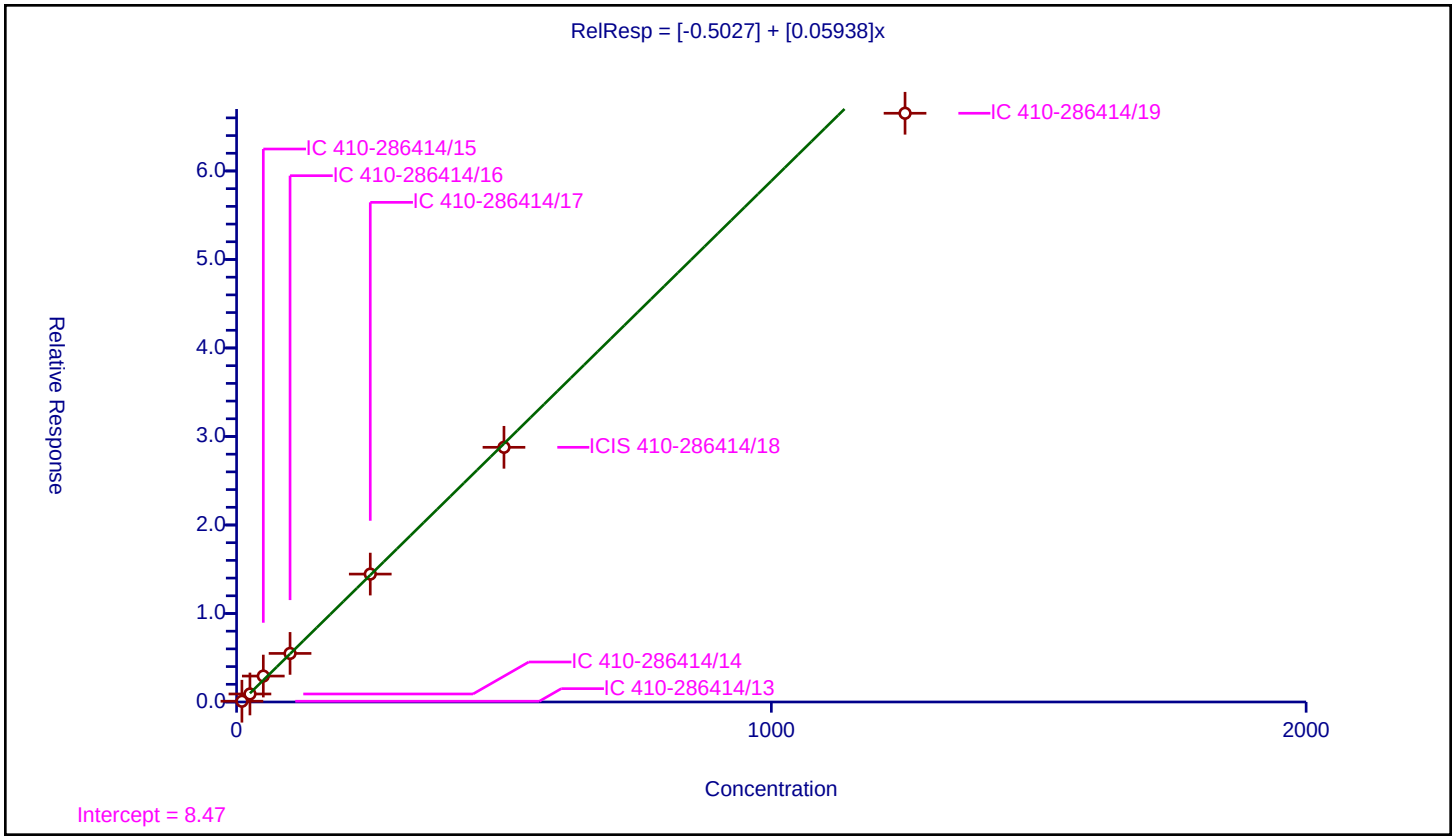
Curve Coefficients

Intercept:	-0.5027
Slope:	0.05938

Error Coefficients

Standard Error:	95100
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	0.084472	50.0	133180.0	0.008447	Y
2	IC 410-286414/14	25.0	0.906829	50.0	128635.0	0.036273	Y
3	IC 410-286414/15	50.0	2.929321	50.0	136943.0	0.058586	Y
4	IC 410-286414/16	100.0	5.488044	50.0	124917.0	0.05488	Y
5	IC 410-286414/17	250.0	14.452224	50.0	141819.0	0.057809	Y
6	ICIS 410-286414/18	500.0	28.776582	50.0	142576.0	0.057553	Y
7	IC 410-286414/19	1250.0	66.5218	50.0	143695.0	0.053217	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

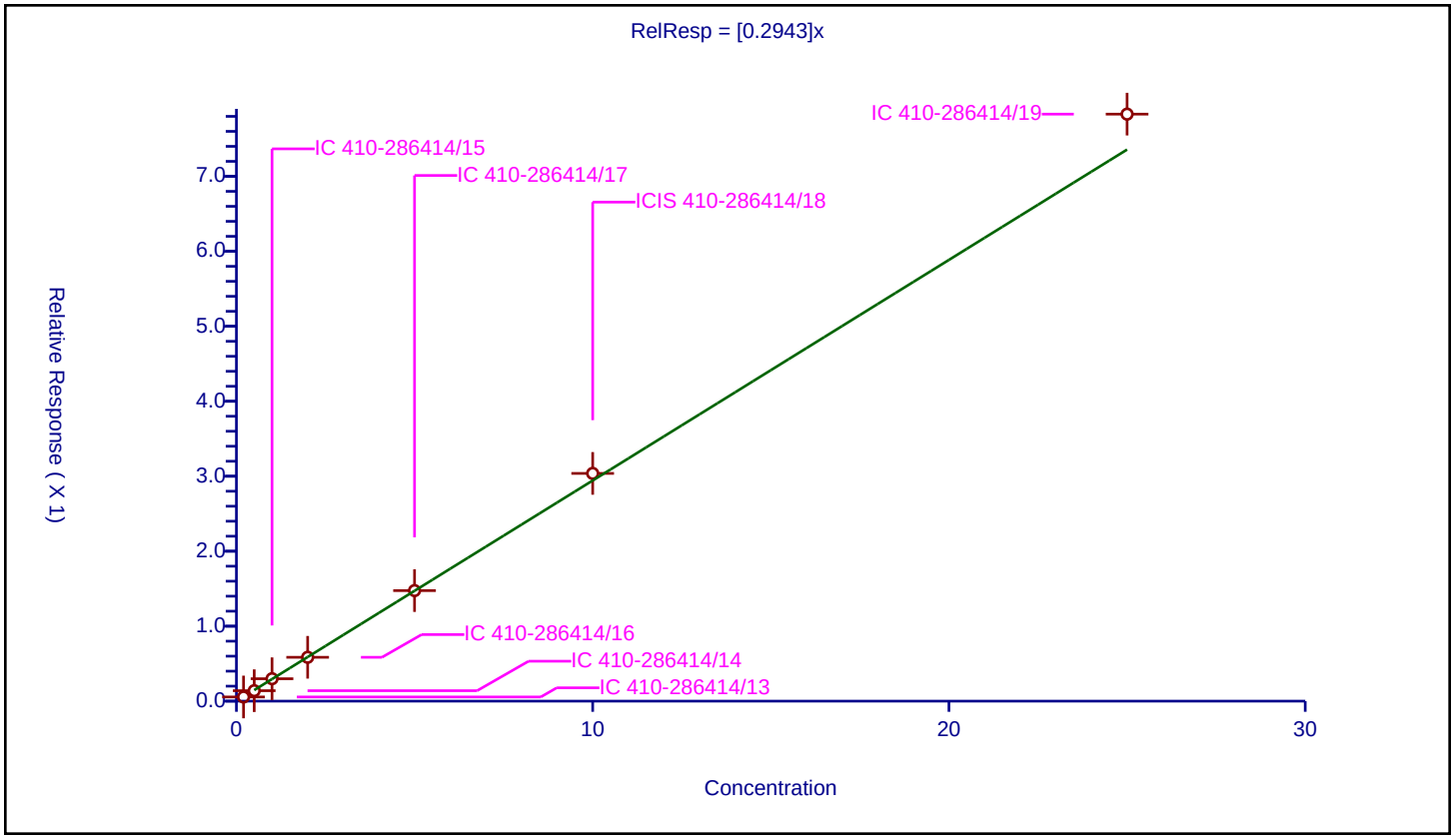
Curve Coefficients

Intercept:	0
Slope:	0.2943

Error Coefficients

Standard Error:	830000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.055537	10.0	2204666.0	0.277684	Y
2	IC 410-286414/14	0.5	0.139448	10.0	2229222.0	0.278896	Y
3	IC 410-286414/15	1.0	0.299139	10.0	2229967.0	0.299139	Y
4	IC 410-286414/16	2.0	0.584865	10.0	2244586.0	0.292433	Y
5	IC 410-286414/17	5.0	1.474561	10.0	2296832.0	0.294912	Y
6	ICIS 410-286414/18	10.0	3.037642	10.0	2328270.0	0.303764	Y
7	IC 410-286414/19	25.0	7.829876	10.0	2388919.0	0.313195	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

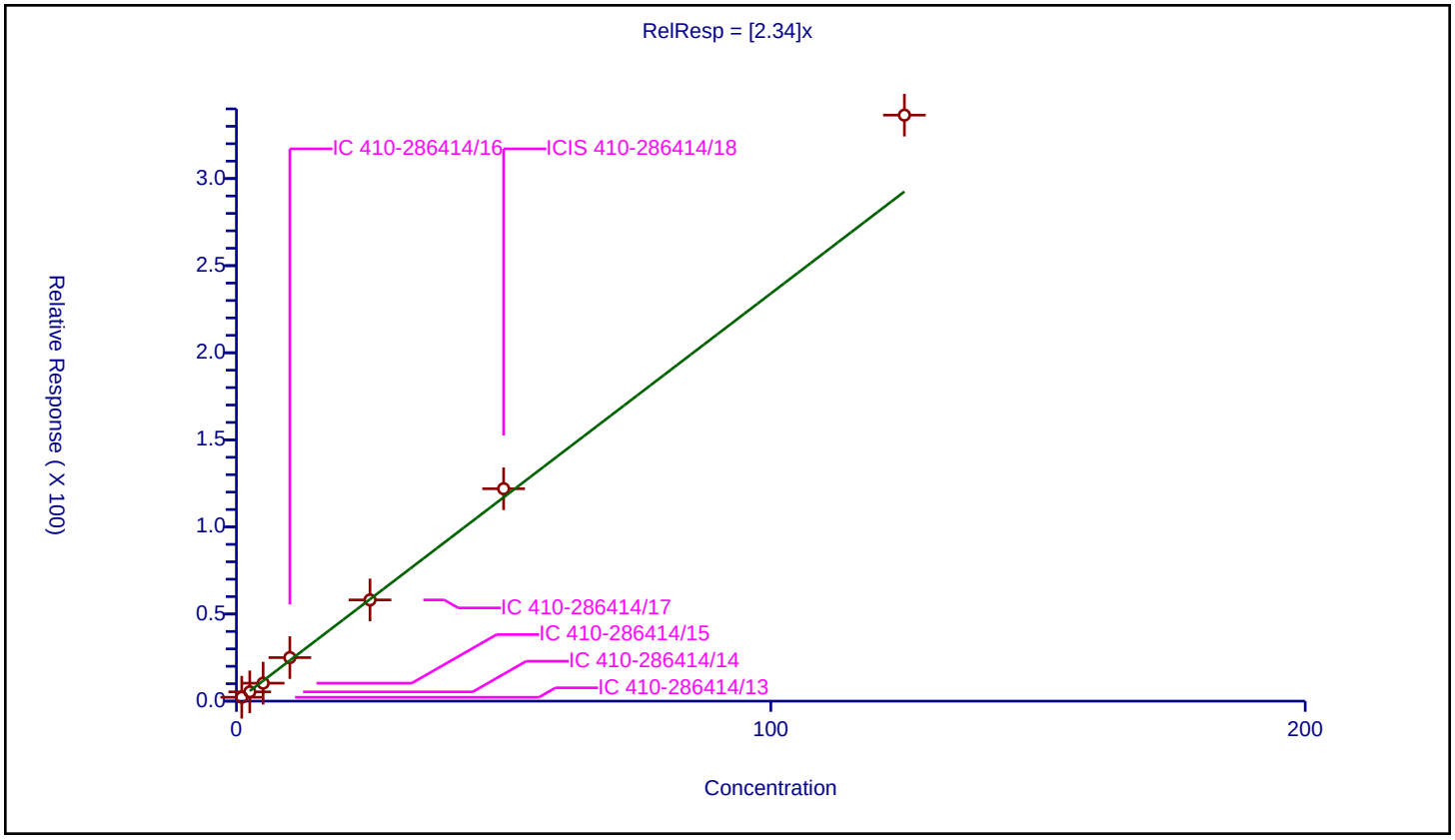
Curve Coefficients

Intercept:	0
Slope:	2.34

Error Coefficients

Standard Error:	426000
Relative Standard Error:	9.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	1.0	2.231566	50.0	133180.0	2.231566	Y
2	IC 410-286414/14	2.5	5.334474	50.0	128635.0	2.133789	Y
3	IC 410-286414/15	5.0	10.306843	50.0	136943.0	2.061369	Y
4	IC 410-286414/16	10.0	24.994196	50.0	124917.0	2.49942	Y
5	IC 410-286414/17	25.0	58.107165	50.0	141819.0	2.324287	Y
6	ICIS 410-286414/18	50.0	121.94093	50.0	142576.0	2.438819	Y
7	IC 410-286414/19	125.0	336.4195	50.0	143695.0	2.691356	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

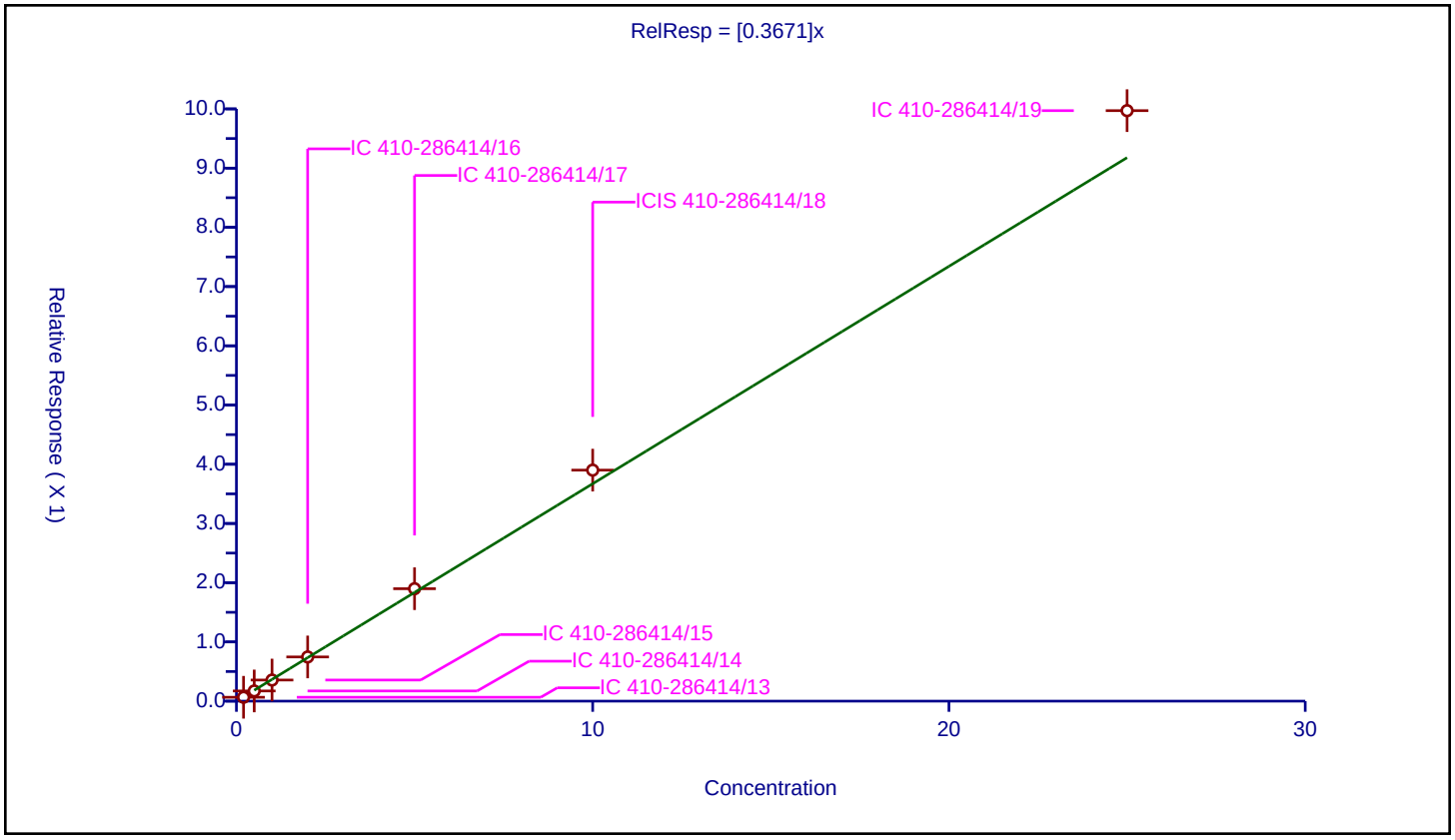
Curve Coefficients

Intercept:	0
Slope:	0.3671

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.065588	10.0	2204666.0	0.327941	Y
2	IC 410-286414/14	0.5	0.171876	10.0	2229222.0	0.343752	Y
3	IC 410-286414/15	1.0	0.356194	10.0	2229967.0	0.356194	Y
4	IC 410-286414/16	2.0	0.746155	10.0	2244586.0	0.373078	Y
5	IC 410-286414/17	5.0	1.898498	10.0	2296832.0	0.3797	Y
6	ICIS 410-286414/18	10.0	3.900776	10.0	2328270.0	0.390078	Y
7	IC 410-286414/19	25.0	9.97048	10.0	2388919.0	0.398819	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

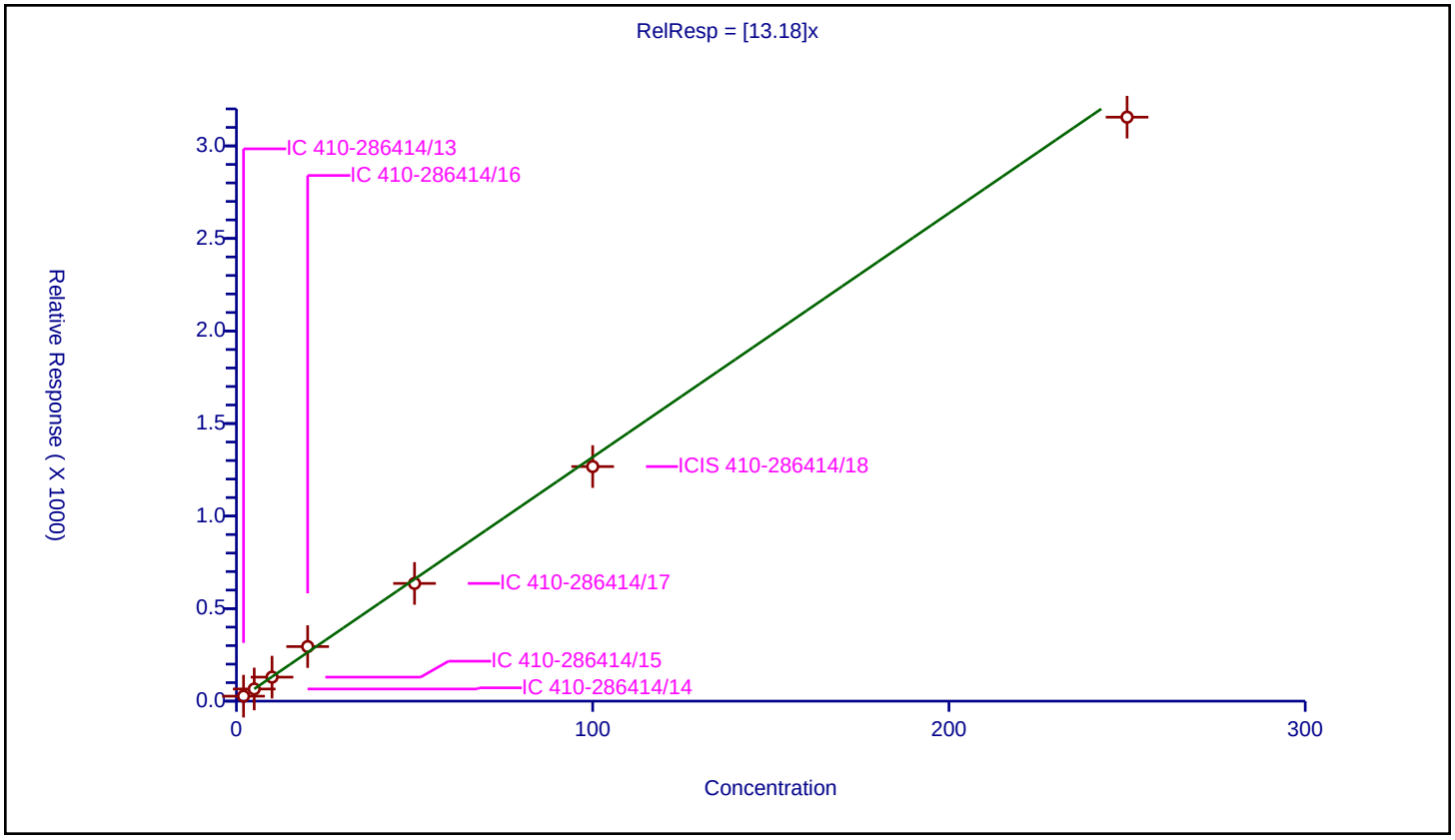
Curve Coefficients

Intercept:	0
Slope:	13.18

Error Coefficients

Standard Error:	4070000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	26.828353	50.0	133180.0	13.414176	Y
2	IC 410-286414/14	5.0	65.659035	50.0	128635.0	13.131807	Y
3	IC 410-286414/15	10.0	129.708346	50.0	136943.0	12.970835	Y
4	IC 410-286414/16	20.0	294.824163	50.0	124917.0	14.741208	Y
5	IC 410-286414/17	50.0	635.980369	50.0	141819.0	12.719607	Y
6	ICIS 410-286414/18	100.0	1267.501543	50.0	142576.0	12.675015	Y
7	IC 410-286414/19	250.0	3155.290372	50.0	143695.0	12.621161	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

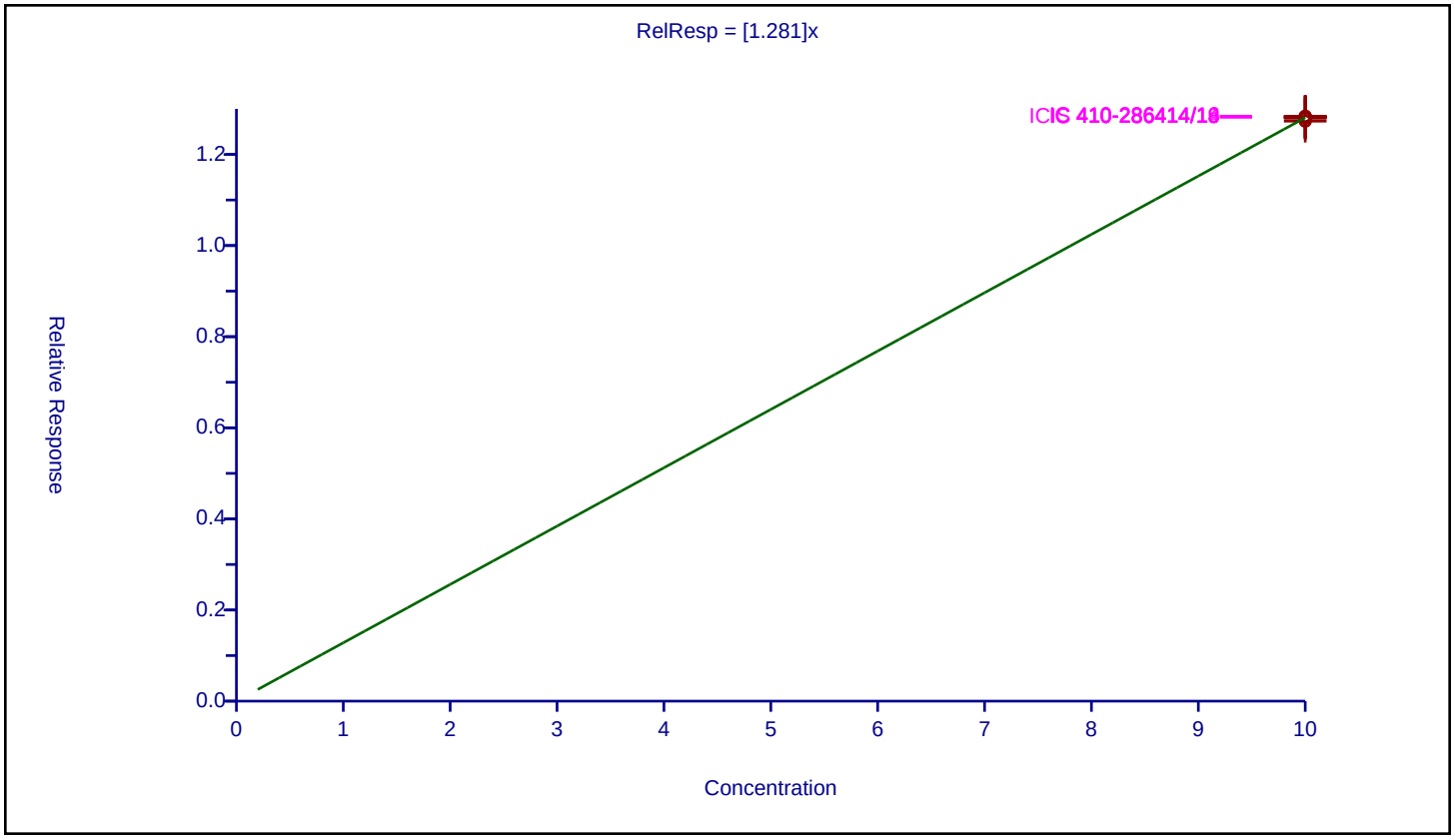
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Standard Error:	2490000
Relative Standard Error:	0.3
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	12.730492	10.0	1741668.0	1.273049	Y
2	IC 410-286414/14	10.0	12.82361	10.0	1755239.0	1.282361	Y
3	IC 410-286414/15	10.0	12.8019	10.0	1766319.0	1.28019	Y
4	IC 410-286414/16	10.0	12.838891	10.0	1767884.0	1.283889	Y
5	IC 410-286414/17	10.0	12.79785	10.0	1816359.0	1.279785	Y
6	ICIS 410-286414/18	10.0	12.818966	10.0	1837007.0	1.281897	Y
7	IC 410-286414/19	10.0	12.832365	10.0	1887193.0	1.283237	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

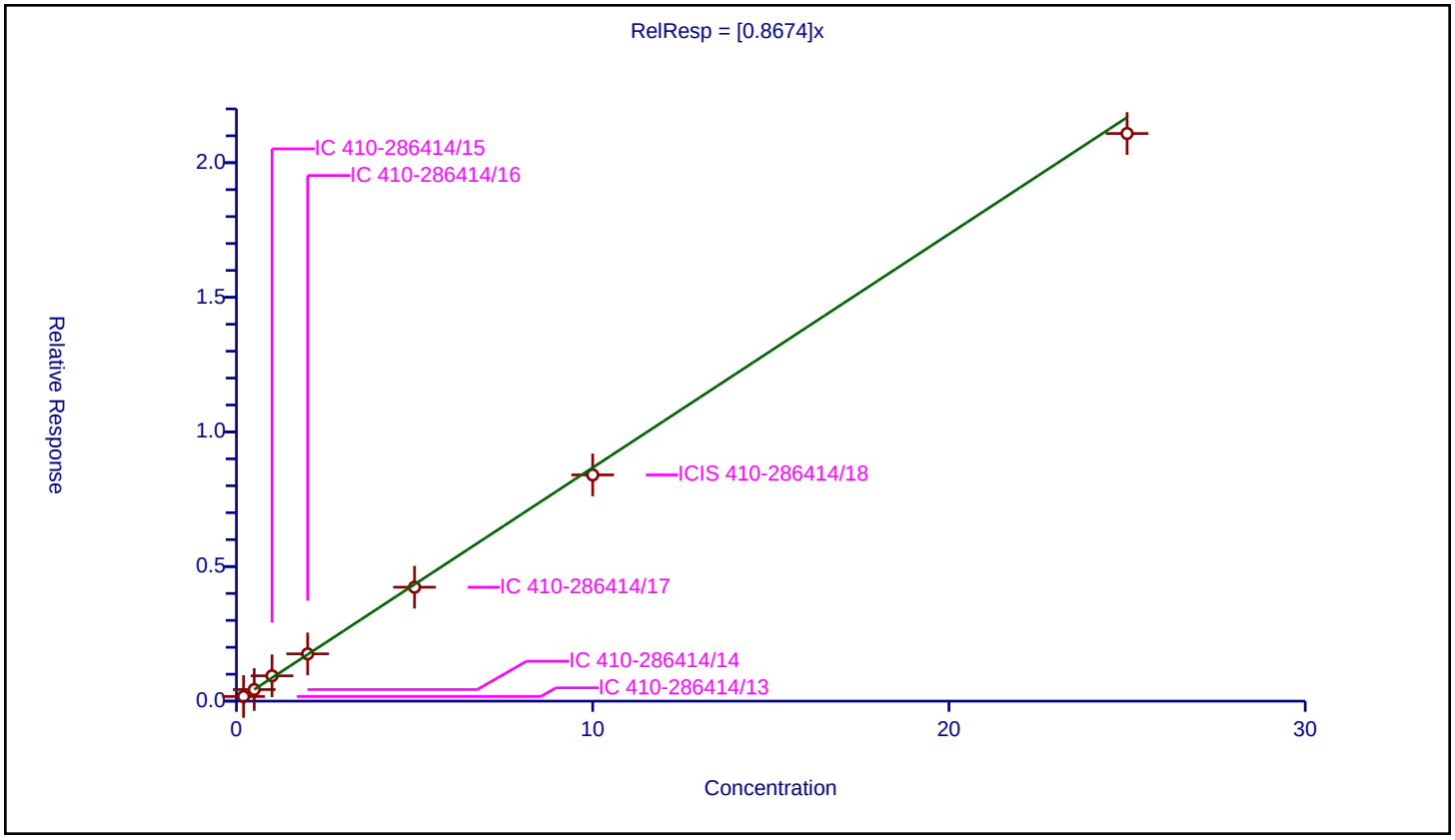
Curve Coefficients

Intercept:	0
Slope:	0.8674

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.172053	10.0	1741668.0	0.860267	Y
2	IC 410-286414/14	0.5	0.430847	10.0	1755239.0	0.861695	Y
3	IC 410-286414/15	1.0	0.94141	10.0	1766319.0	0.94141	Y
4	IC 410-286414/16	2.0	1.756162	10.0	1767884.0	0.878081	Y
5	IC 410-286414/17	5.0	4.233337	10.0	1816359.0	0.846667	Y
6	ICIS 410-286414/18	10.0	8.40459	10.0	1837007.0	0.840459	Y
7	IC 410-286414/19	25.0	21.086169	10.0	1887193.0	0.843447	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

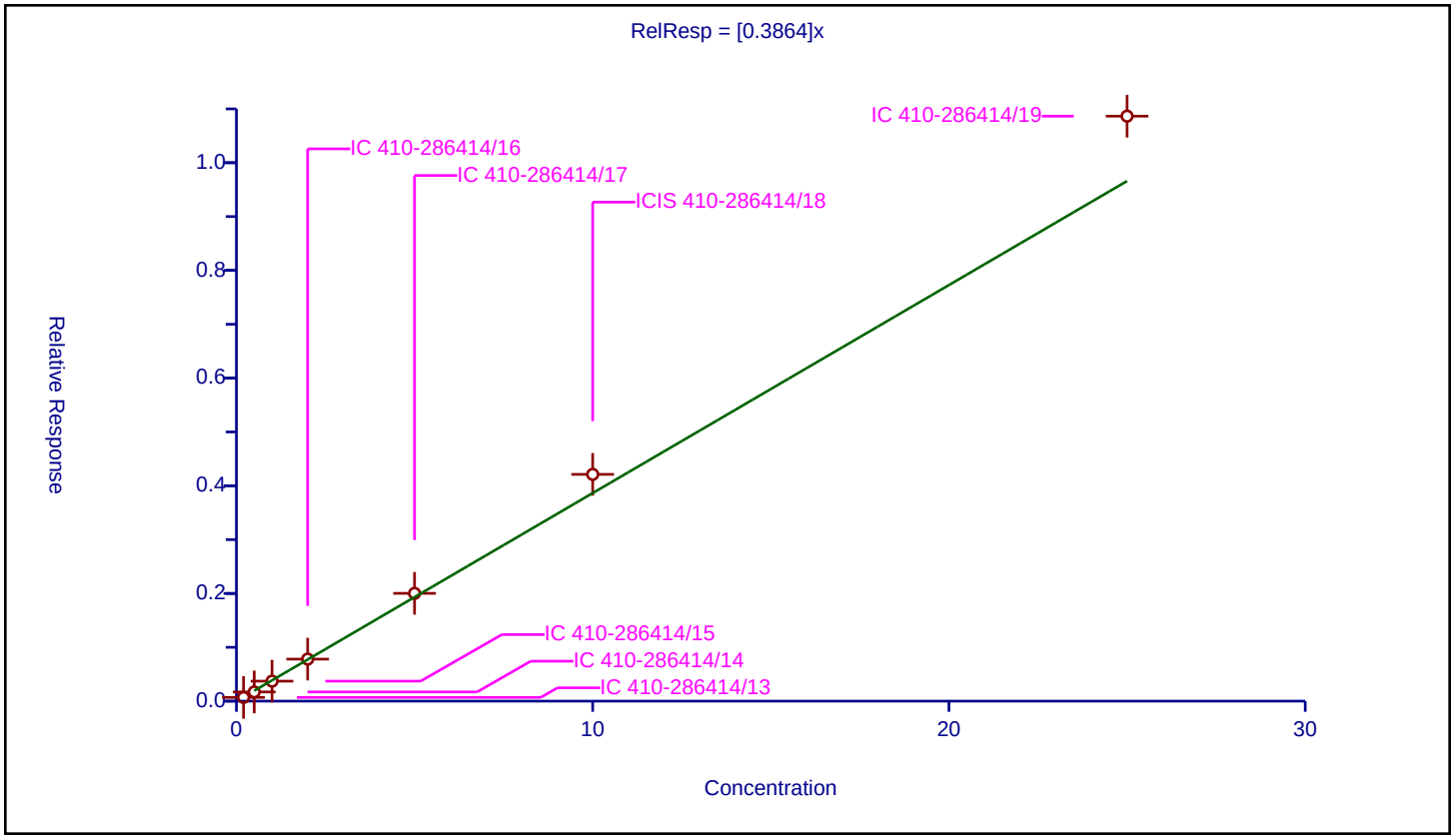
Curve Coefficients

Intercept:	0
Slope:	0.3864

Error Coefficients

Standard Error:	909000
Relative Standard Error:	9.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.069014	10.0	1741668.0	0.345072	Y
2	IC 410-286414/14	0.5	0.171139	10.0	1755239.0	0.342278	Y
3	IC 410-286414/15	1.0	0.371145	10.0	1766319.0	0.371145	Y
4	IC 410-286414/16	2.0	0.780204	10.0	1767884.0	0.390102	Y
5	IC 410-286414/17	5.0	2.002115	10.0	1816359.0	0.400423	Y
6	ICIS 410-286414/18	10.0	4.211867	10.0	1837007.0	0.421187	Y
7	IC 410-286414/19	25.0	10.865089	10.0	1887193.0	0.434604	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

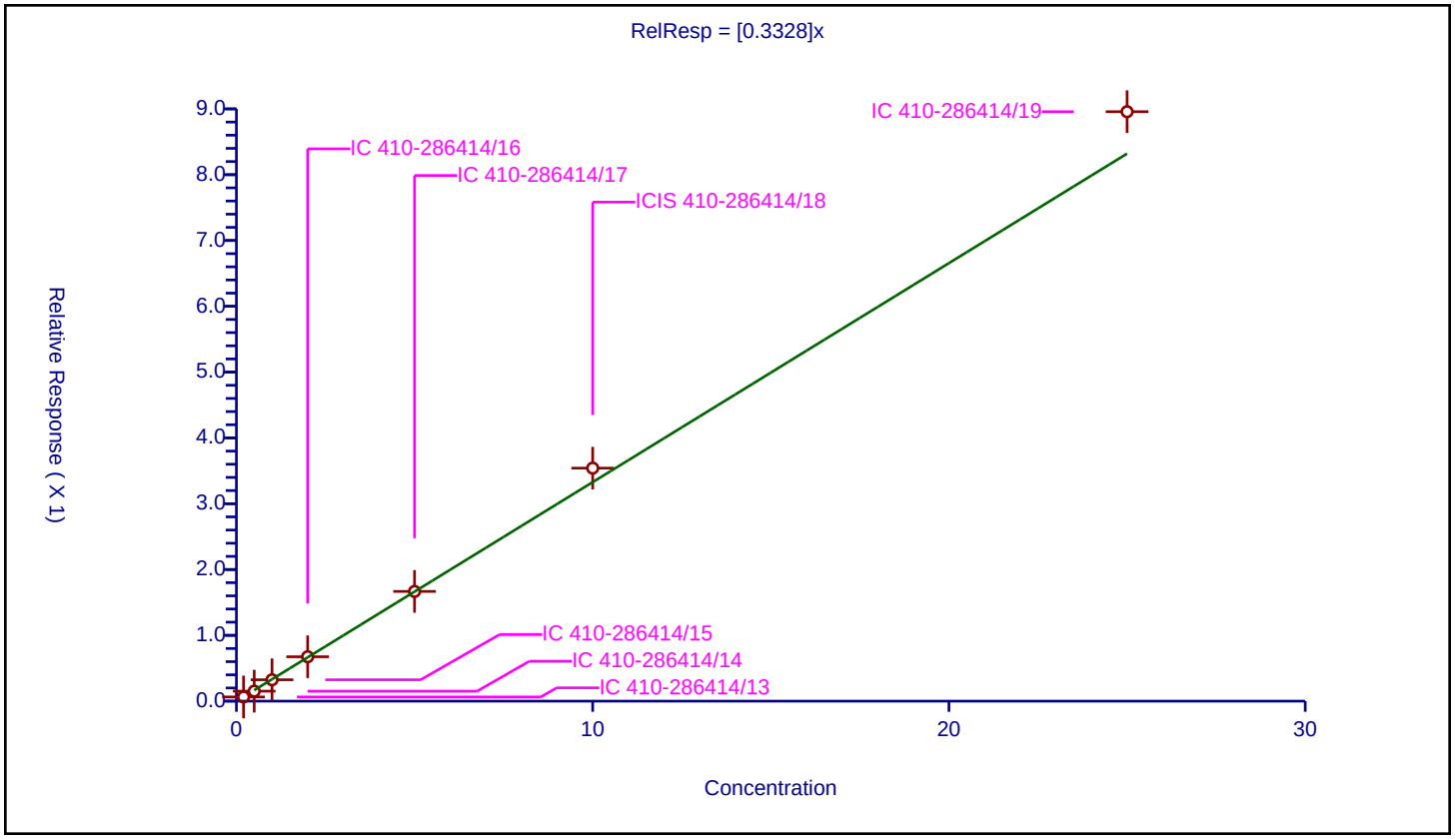
Curve Coefficients

Intercept:	0
Slope:	0.3328

Error Coefficients

Standard Error:	752000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.06356	10.0	1741668.0	0.317799	Y
2	IC 410-286414/14	0.5	0.151962	10.0	1755239.0	0.303924	Y
3	IC 410-286414/15	1.0	0.32467	10.0	1766319.0	0.32467	Y
4	IC 410-286414/16	2.0	0.674671	10.0	1767884.0	0.337335	Y
5	IC 410-286414/17	5.0	1.667495	10.0	1816359.0	0.333499	Y
6	ICIS 410-286414/18	10.0	3.540966	10.0	1837007.0	0.354097	Y
7	IC 410-286414/19	25.0	8.957468	10.0	1887193.0	0.358299	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

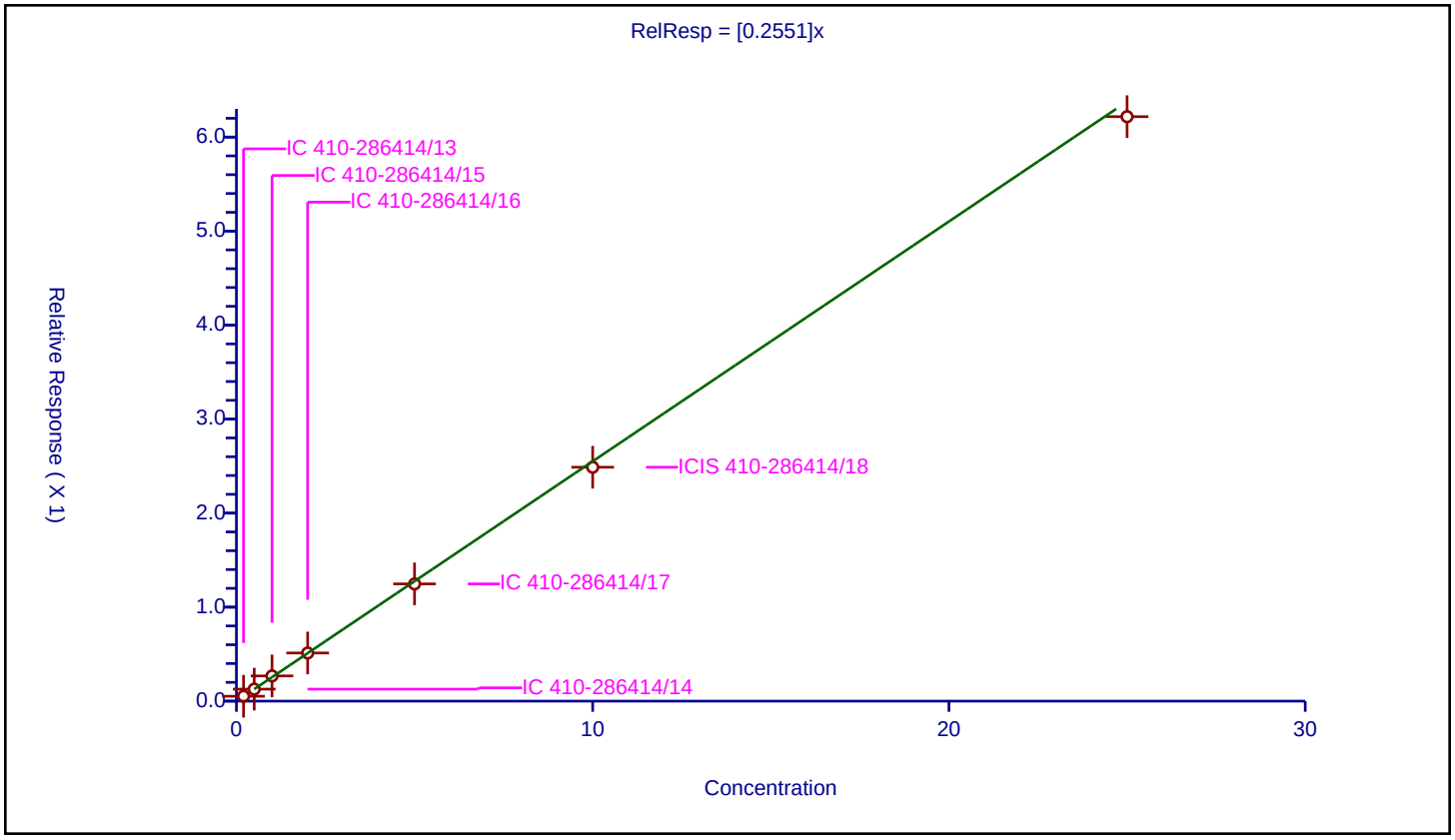
Curve Coefficients

Intercept:	0
Slope:	0.2551

Error Coefficients

Standard Error:	524000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.051921	10.0	1741668.0	0.259607	Y
2	IC 410-286414/14	0.5	0.127538	10.0	1755239.0	0.255076	Y
3	IC 410-286414/15	1.0	0.268168	10.0	1766319.0	0.268168	Y
4	IC 410-286414/16	2.0	0.512058	10.0	1767884.0	0.256029	Y
5	IC 410-286414/17	5.0	1.246978	10.0	1816359.0	0.249396	Y
6	ICIS 410-286414/18	10.0	2.488151	10.0	1837007.0	0.248815	Y
7	IC 410-286414/19	25.0	6.217387	10.0	1887193.0	0.248695	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

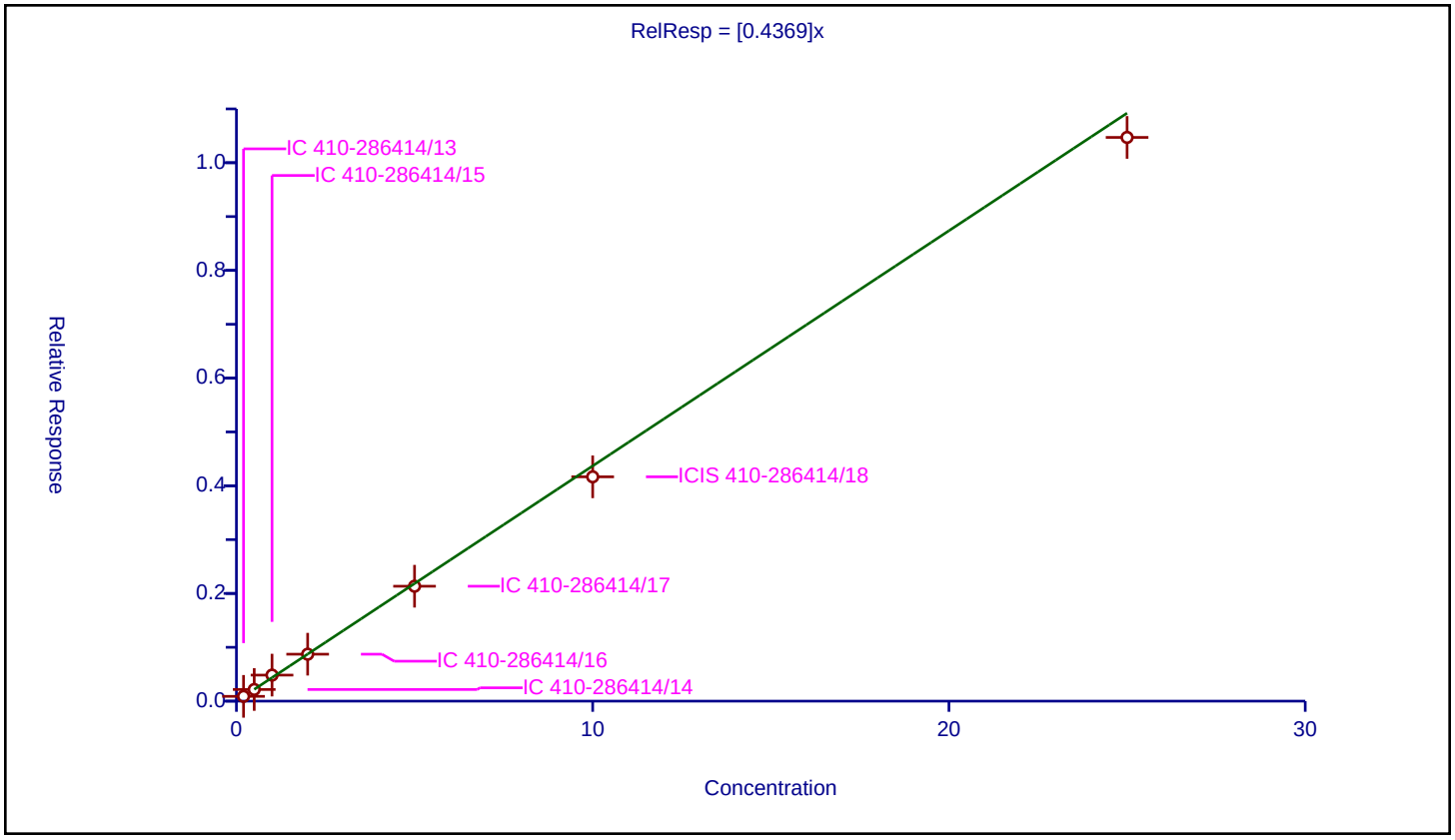
Curve Coefficients

Intercept:	0
Slope:	0.4369

Error Coefficients

Standard Error:	883000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.08872	10.0	1741668.0	0.443598	Y
2	IC 410-286414/14	0.5	0.216443	10.0	1755239.0	0.432887	Y
3	IC 410-286414/15	1.0	0.483322	10.0	1766319.0	0.483322	Y
4	IC 410-286414/16	2.0	0.871828	10.0	1767884.0	0.435914	Y
5	IC 410-286414/17	5.0	2.134369	10.0	1816359.0	0.426874	Y
6	ICIS 410-286414/18	10.0	4.166402	10.0	1837007.0	0.41664	Y
7	IC 410-286414/19	25.0	10.470164	10.0	1887193.0	0.418807	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

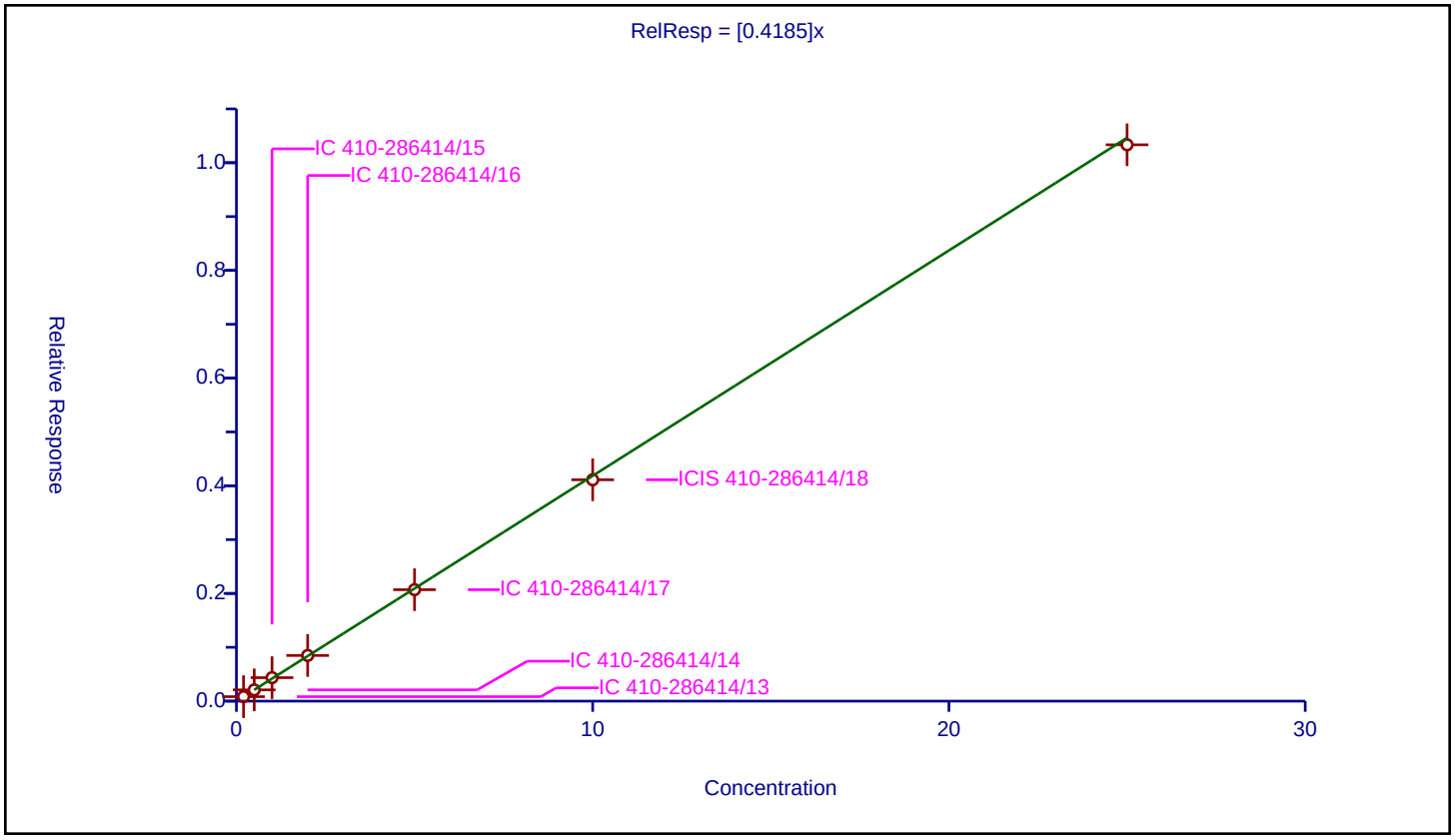
Curve Coefficients

Intercept:	0
Slope:	0.4185

Error Coefficients

Standard Error:	870000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.082679	10.0	1741668.0	0.413397	Y
2	IC 410-286414/14	0.5	0.208935	10.0	1755239.0	0.417869	Y
3	IC 410-286414/15	1.0	0.436071	10.0	1766319.0	0.436071	Y
4	IC 410-286414/16	2.0	0.847957	10.0	1767884.0	0.423979	Y
5	IC 410-286414/17	5.0	2.070053	10.0	1816359.0	0.414011	Y
6	ICIS 410-286414/18	10.0	4.111498	10.0	1837007.0	0.41115	Y
7	IC 410-286414/19	25.0	10.333246	10.0	1887193.0	0.41333	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

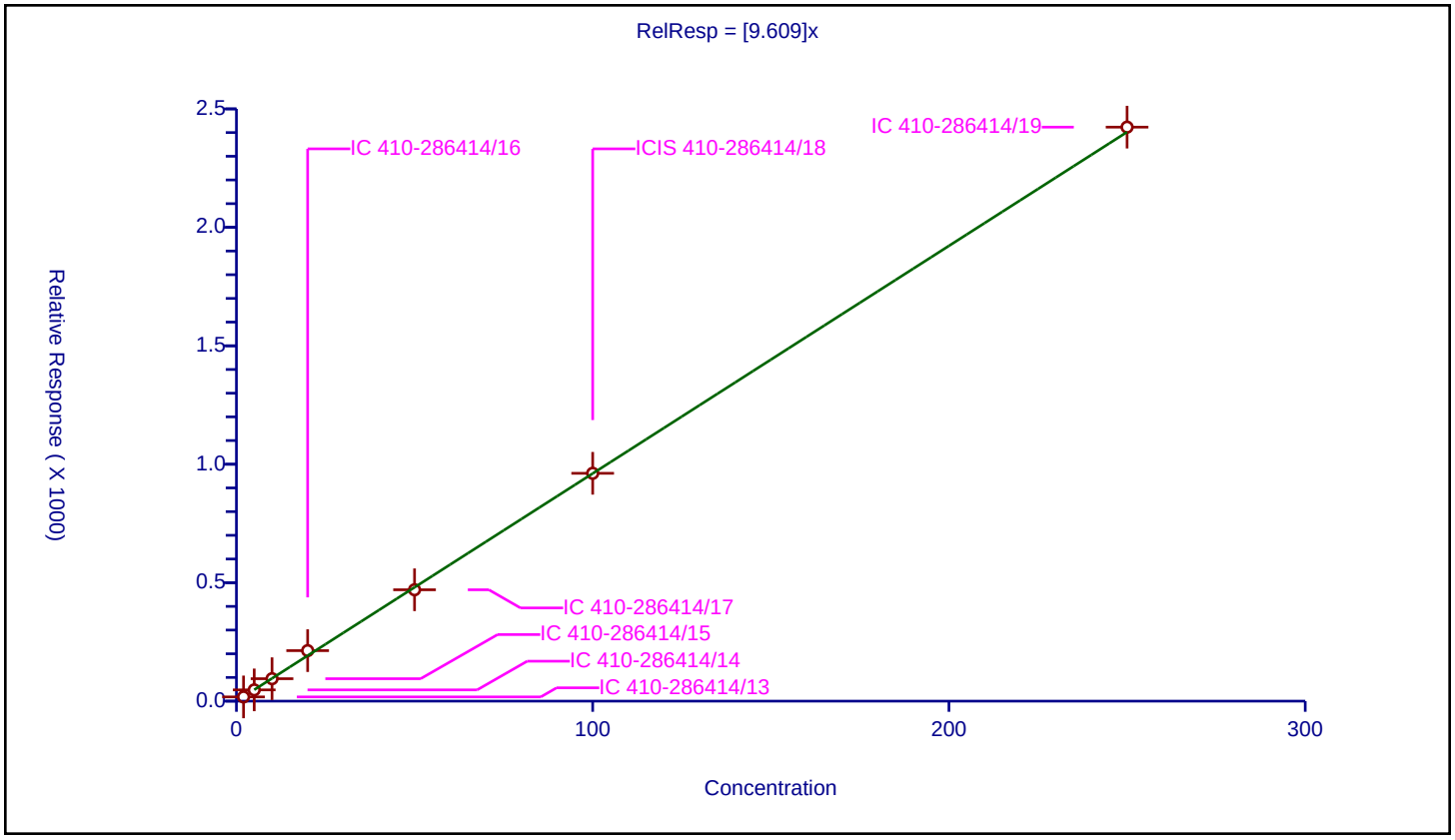
Curve Coefficients

Intercept:	0
Slope:	9.609

Error Coefficients

Standard Error:	3110000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	17.842769	50.0	133180.0	8.921385	Y
2	IC 410-286414/14	5.0	47.491351	50.0	128635.0	9.49827	Y
3	IC 410-286414/15	10.0	94.754752	50.0	136943.0	9.475475	Y
4	IC 410-286414/16	20.0	213.165942	50.0	124917.0	10.658297	Y
5	IC 410-286414/17	50.0	470.094628	50.0	141819.0	9.401893	Y
6	ICIS 410-286414/18	100.0	961.787047	50.0	142576.0	9.61787	Y
7	IC 410-286414/19	250.0	2422.942343	50.0	143695.0	9.691769	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

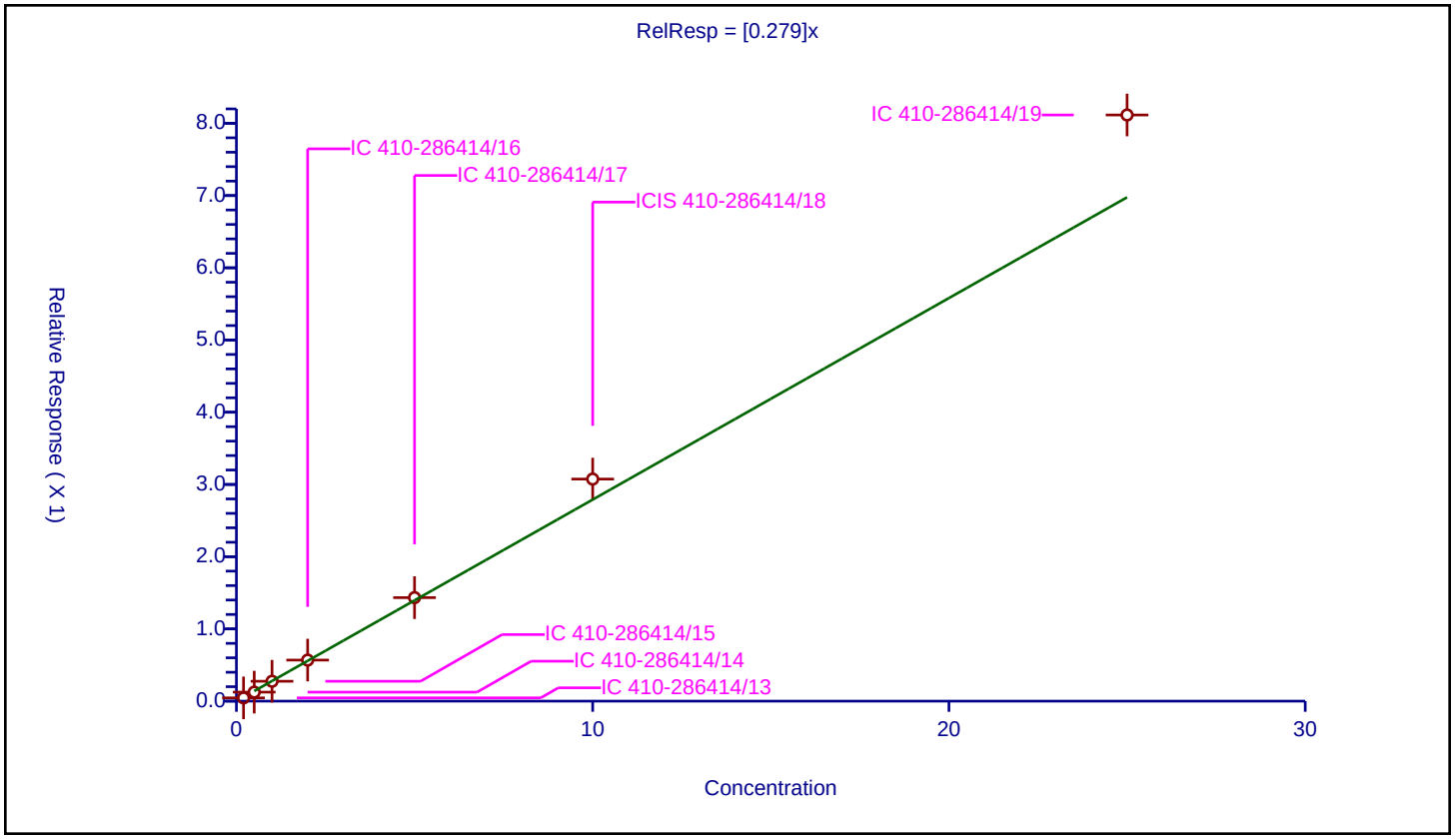
Curve Coefficients

Intercept:	0
Slope:	0.279

Error Coefficients

Standard Error:	676000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.045164	10.0	1741668.0	0.225818	Y
2	IC 410-286414/14	0.5	0.124661	10.0	1755239.0	0.249322	Y
3	IC 410-286414/15	1.0	0.275233	10.0	1766319.0	0.275233	Y
4	IC 410-286414/16	2.0	0.568301	10.0	1767884.0	0.28415	Y
5	IC 410-286414/17	5.0	1.433224	10.0	1816359.0	0.286645	Y
6	ICIS 410-286414/18	10.0	3.074381	10.0	1837007.0	0.307438	Y
7	IC 410-286414/19	25.0	8.115635	10.0	1887193.0	0.324625	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

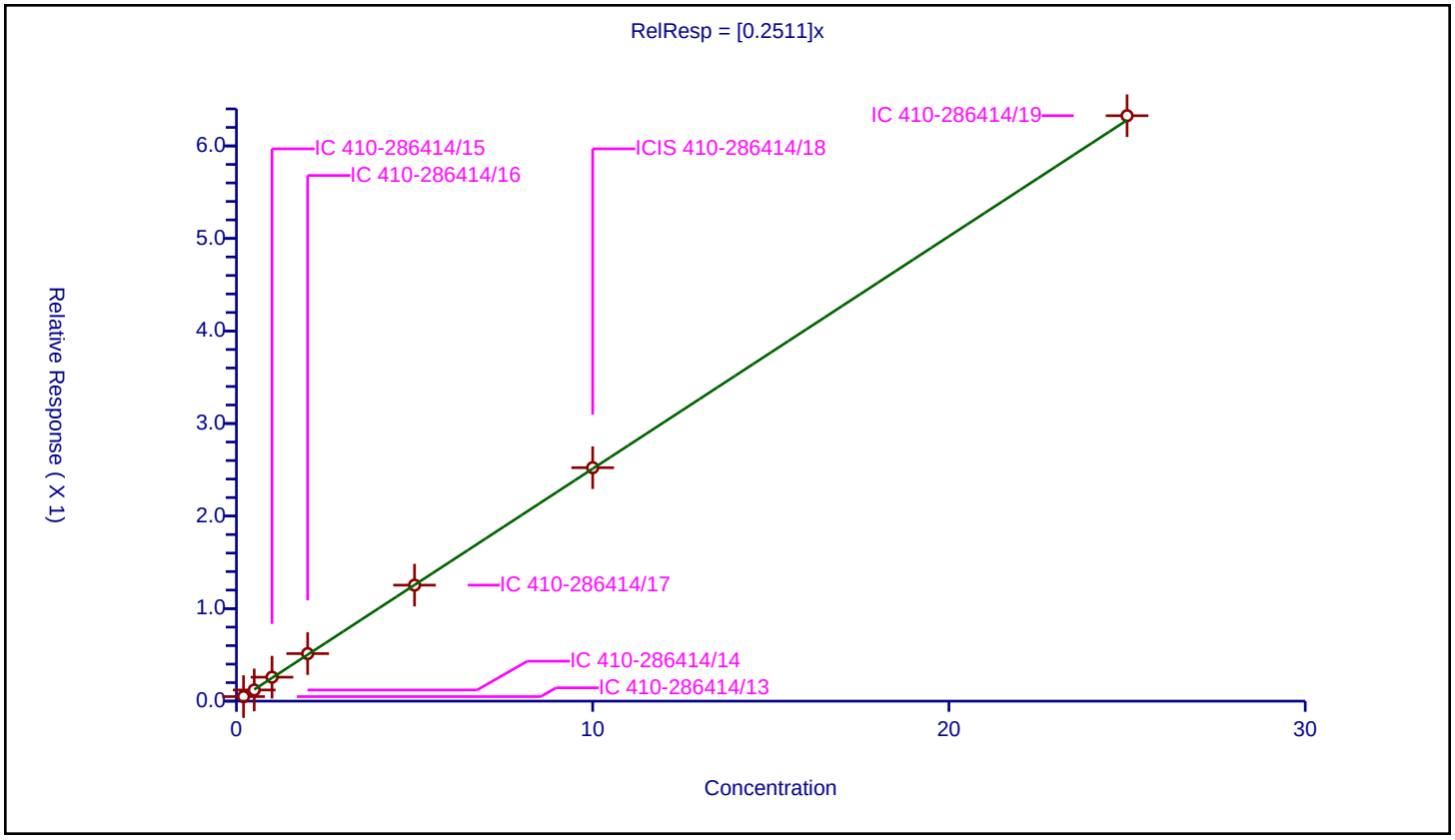
Curve Coefficients

Intercept:	0
Slope:	0.2511

Error Coefficients

Standard Error:	533000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.048936	10.0	1741668.0	0.244679	Y
2	IC 410-286414/14	0.5	0.12085	10.0	1755239.0	0.241699	Y
3	IC 410-286414/15	1.0	0.258917	10.0	1766319.0	0.258917	Y
4	IC 410-286414/16	2.0	0.513467	10.0	1767884.0	0.256733	Y
5	IC 410-286414/17	5.0	1.253436	10.0	1816359.0	0.250687	Y
6	ICIS 410-286414/18	10.0	2.522718	10.0	1837007.0	0.252272	Y
7	IC 410-286414/19	25.0	6.326306	10.0	1887193.0	0.253052	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

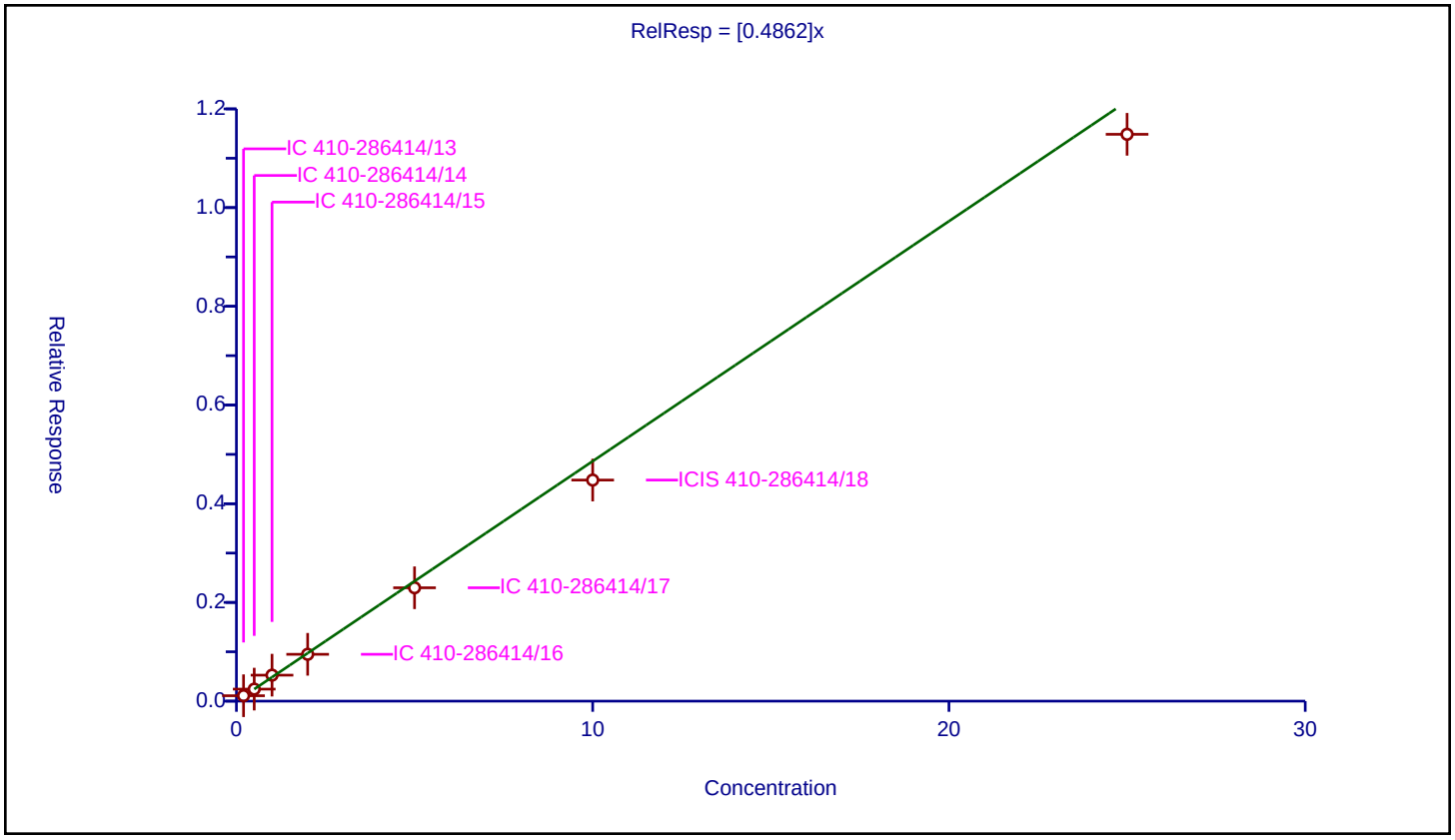
Curve Coefficients

Intercept:	0
Slope:	0.4862

Error Coefficients

Standard Error:	965000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.109803	10.0	1741668.0	0.549014	Y
2	IC 410-286414/14	0.5	0.243391	10.0	1755239.0	0.486783	Y
3	IC 410-286414/15	1.0	0.526219	10.0	1766319.0	0.526219	Y
4	IC 410-286414/16	2.0	0.948841	10.0	1767884.0	0.47442	Y
5	IC 410-286414/17	5.0	2.297046	10.0	1816359.0	0.459409	Y
6	ICIS 410-286414/18	10.0	4.47964	10.0	1837007.0	0.447964	Y
7	IC 410-286414/19	25.0	11.485312	10.0	1887193.0	0.459412	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

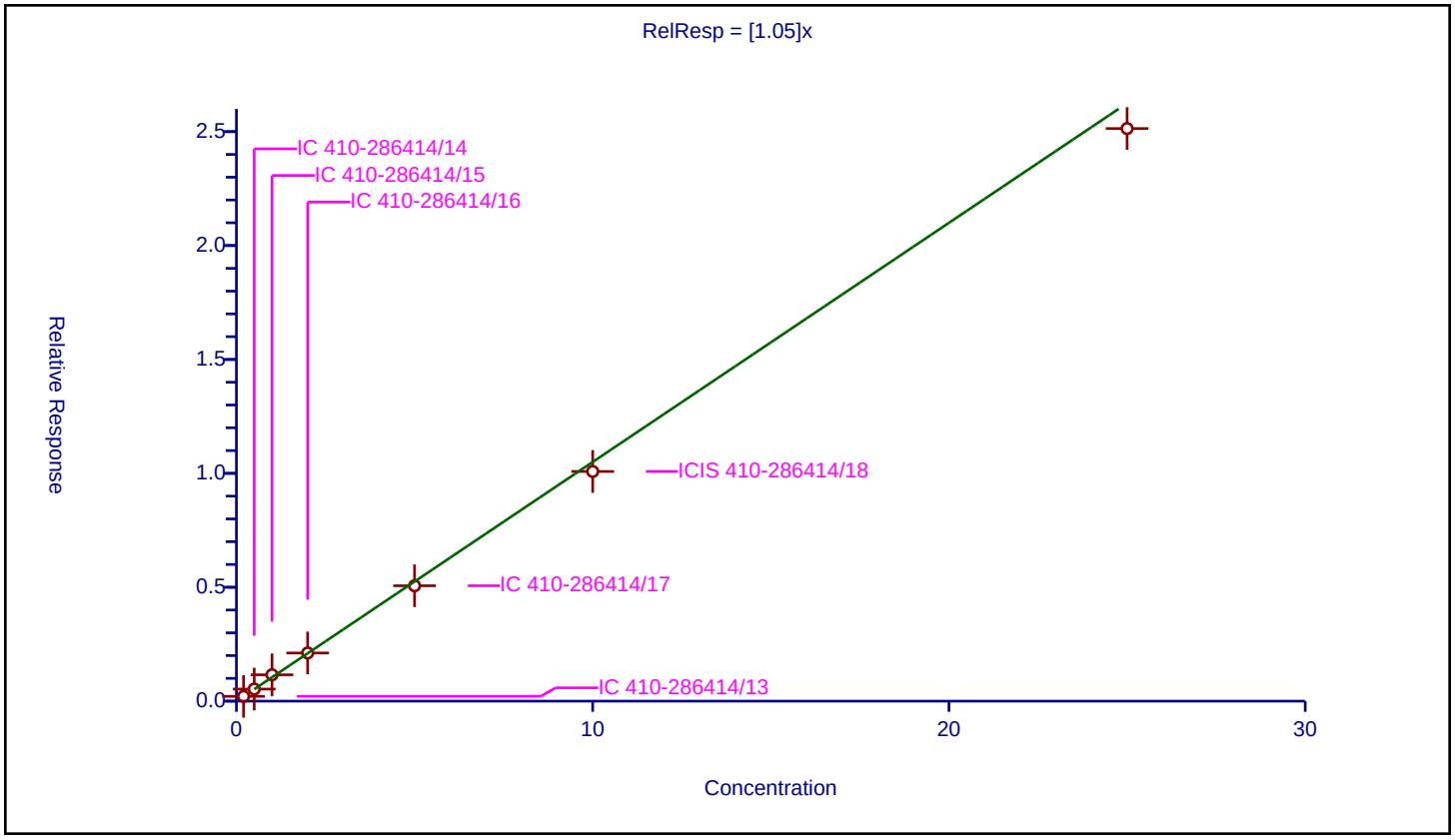
Curve Coefficients

Intercept:	0
Slope:	1.05

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.20965	10.0	1741668.0	1.048248	Y
2	IC 410-286414/14	0.5	0.530036	10.0	1755239.0	1.060072	Y
3	IC 410-286414/15	1.0	1.156597	10.0	1766319.0	1.156597	Y
4	IC 410-286414/16	2.0	2.114698	10.0	1767884.0	1.057349	Y
5	IC 410-286414/17	5.0	5.066119	10.0	1816359.0	1.013224	Y
6	ICIS 410-286414/18	10.0	10.082722	10.0	1837007.0	1.008272	Y
7	IC 410-286414/19	25.0	25.136851	10.0	1887193.0	1.005474	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

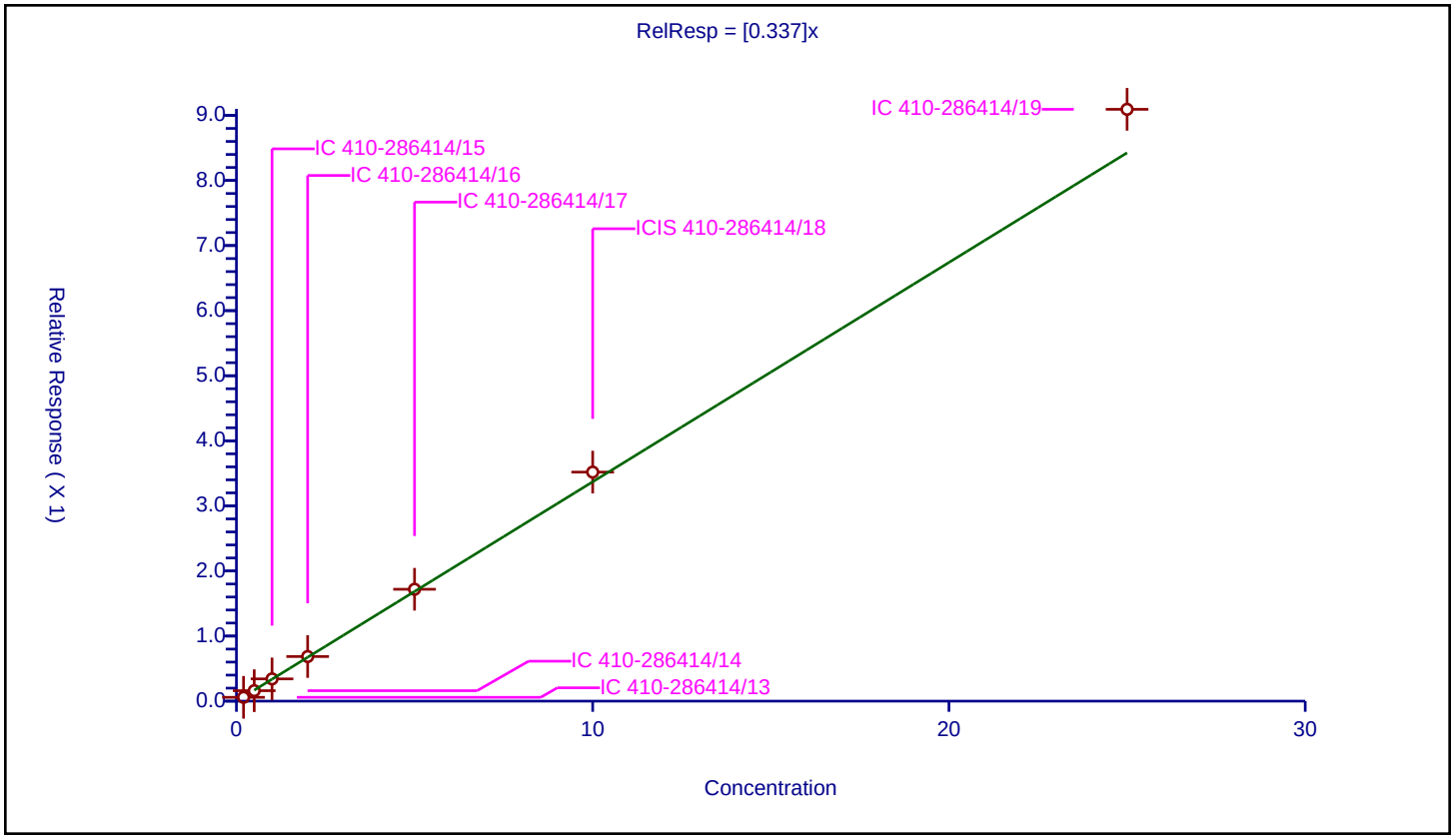
Curve Coefficients

Intercept:	0
Slope:	0.337

Error Coefficients

Standard Error:	762000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.058766	10.0	1741668.0	0.293828	Y
2	IC 410-286414/14	0.5	0.160605	10.0	1755239.0	0.32121	Y
3	IC 410-286414/15	1.0	0.341943	10.0	1766319.0	0.341943	Y
4	IC 410-286414/16	2.0	0.685458	10.0	1767884.0	0.342729	Y
5	IC 410-286414/17	5.0	1.718807	10.0	1816359.0	0.343761	Y
6	ICIS 410-286414/18	10.0	3.519306	10.0	1837007.0	0.351931	Y
7	IC 410-286414/19	25.0	9.093251	10.0	1887193.0	0.36373	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

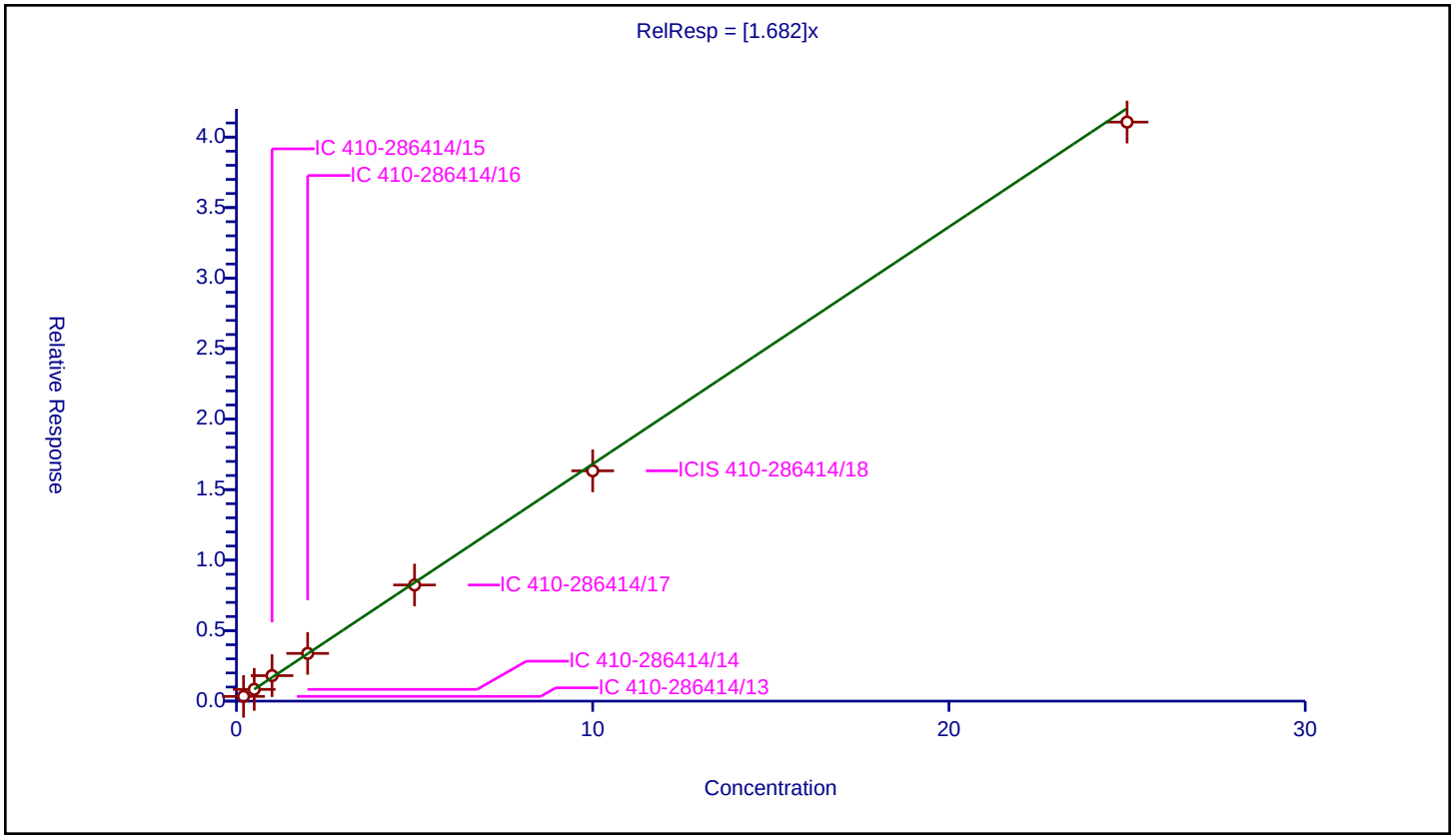
Curve Coefficients

Intercept:	0
Slope:	1.682

Error Coefficients

Standard Error:	3460000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.335678	10.0	1741668.0	1.678391	Y
2	IC 410-286414/14	0.5	0.83351	10.0	1755239.0	1.667021	Y
3	IC 410-286414/15	1.0	1.809367	10.0	1766319.0	1.809367	Y
4	IC 410-286414/16	2.0	3.386342	10.0	1767884.0	1.693171	Y
5	IC 410-286414/17	5.0	8.236054	10.0	1816359.0	1.647211	Y
6	ICIS 410-286414/18	10.0	16.333623	10.0	1837007.0	1.633362	Y
7	IC 410-286414/19	25.0	41.065074	10.0	1887193.0	1.642603	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

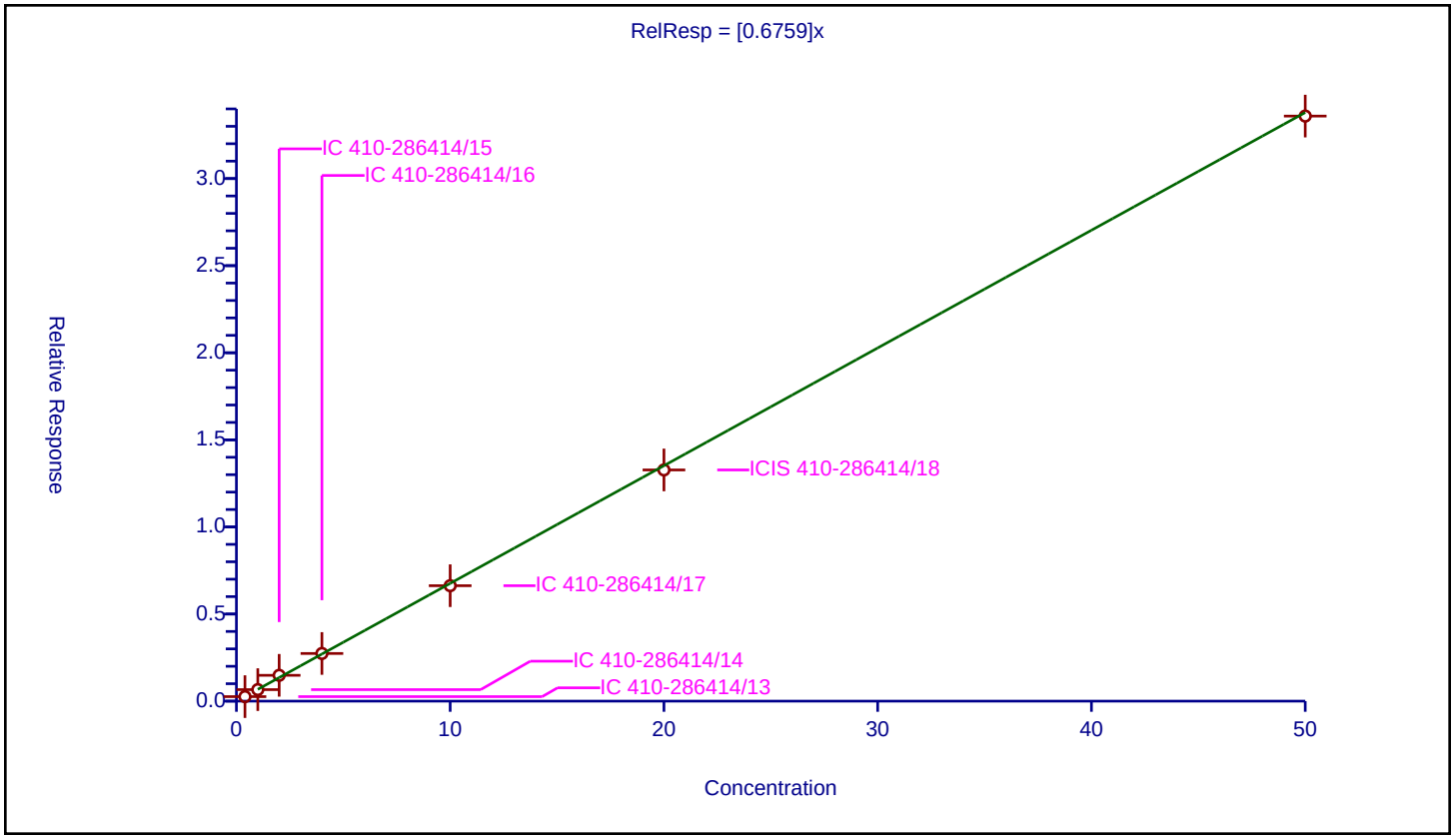
Curve Coefficients

Intercept:	0
Slope:	0.6759

Error Coefficients

Standard Error:	2830000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.4	0.258752	10.0	1741668.0	0.64688	Y
2	IC 410-286414/14	1.0	0.660639	10.0	1755239.0	0.660639	Y
3	IC 410-286414/15	2.0	1.482303	10.0	1766319.0	0.741152	Y
4	IC 410-286414/16	4.0	2.736848	10.0	1767884.0	0.684212	Y
5	IC 410-286414/17	10.0	6.626763	10.0	1816359.0	0.662676	Y
6	ICIS 410-286414/18	20.0	13.272943	10.0	1837007.0	0.663647	Y
7	IC 410-286414/19	50.0	33.587429	10.0	1887193.0	0.671749	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

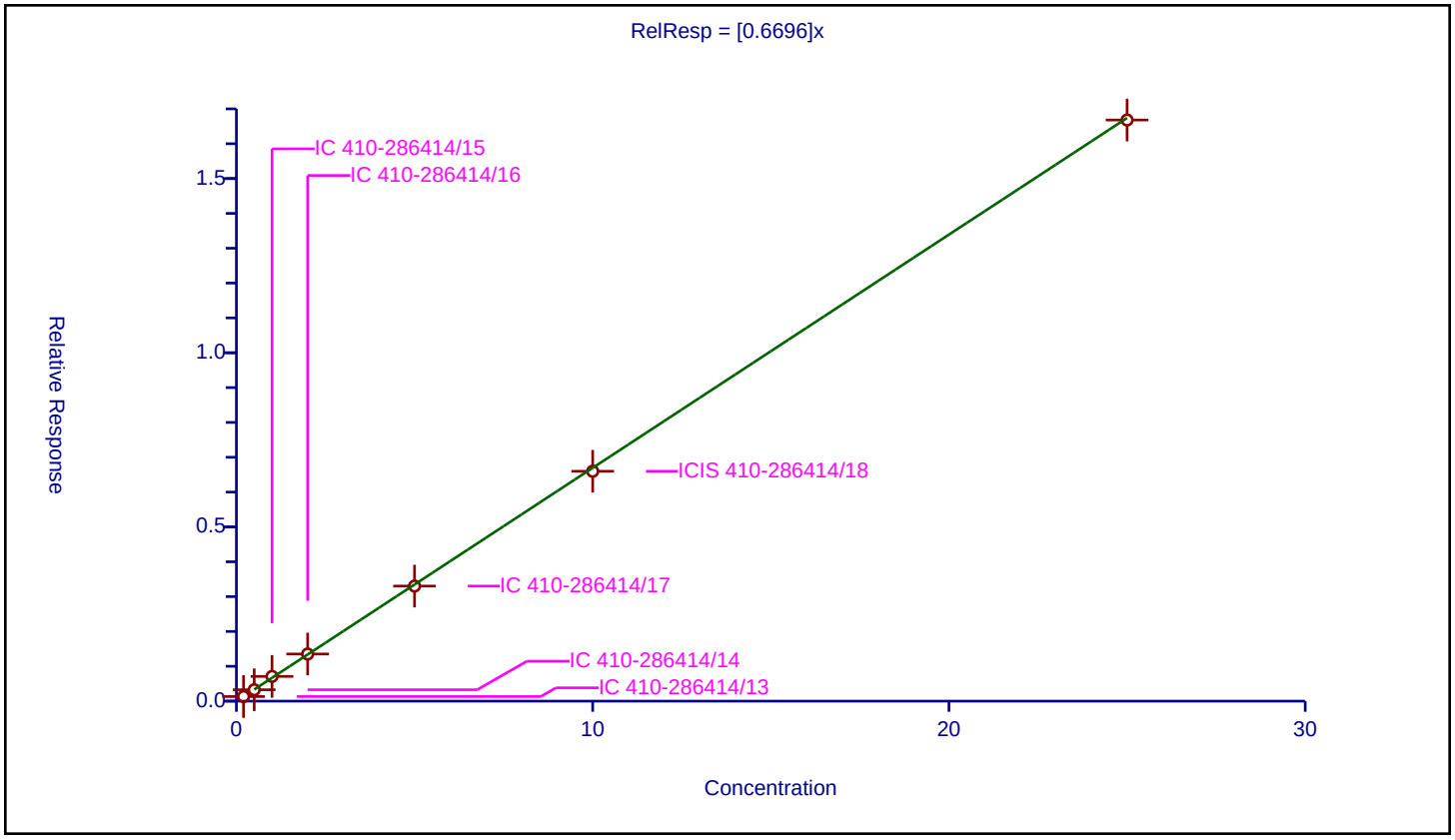
Curve Coefficients

Intercept:	0
Slope:	0.6696

Error Coefficients

Standard Error:	1400000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.131759	10.0	1741668.0	0.658794	Y
2	IC 410-286414/14	0.5	0.326975	10.0	1755239.0	0.653951	Y
3	IC 410-286414/15	1.0	0.710206	10.0	1766319.0	0.710206	Y
4	IC 410-286414/16	2.0	1.352623	10.0	1767884.0	0.676311	Y
5	IC 410-286414/17	5.0	3.303213	10.0	1816359.0	0.660643	Y
6	ICIS 410-286414/18	10.0	6.598315	10.0	1837007.0	0.659831	Y
7	IC 410-286414/19	25.0	16.680064	10.0	1887193.0	0.667203	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

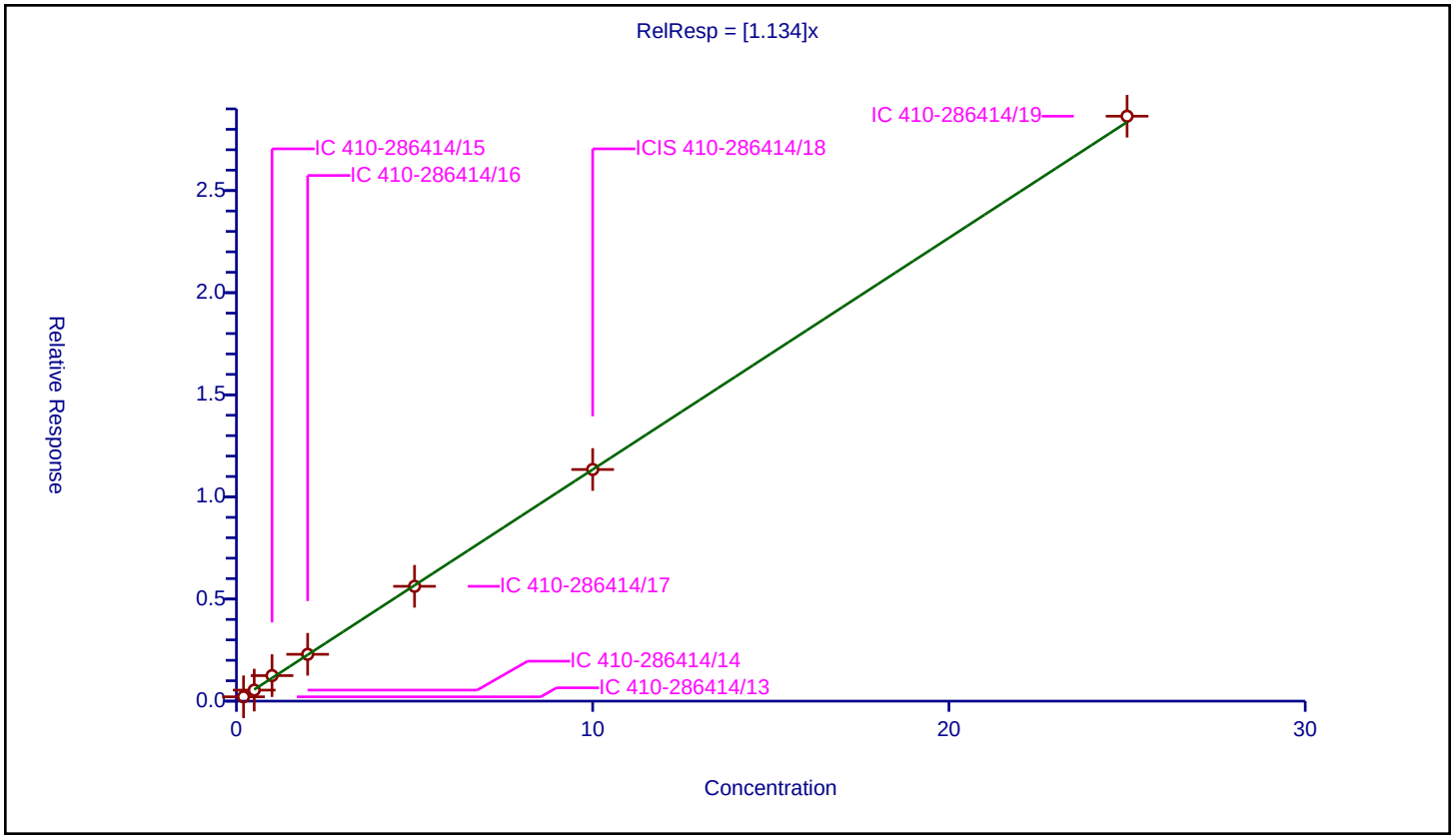
Curve Coefficients

Intercept:	0
Slope:	1.134

Error Coefficients

Standard Error:	2410000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.211366	10.0	1741668.0	1.056832	Y
2	IC 410-286414/14	0.5	0.540901	10.0	1755239.0	1.081801	Y
3	IC 410-286414/15	1.0	1.249797	10.0	1766319.0	1.249797	Y
4	IC 410-286414/16	2.0	2.293058	10.0	1767884.0	1.146529	Y
5	IC 410-286414/17	5.0	5.622782	10.0	1816359.0	1.124556	Y
6	ICIS 410-286414/18	10.0	11.342641	10.0	1837007.0	1.134264	Y
7	IC 410-286414/19	25.0	28.642561	10.0	1887193.0	1.145702	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

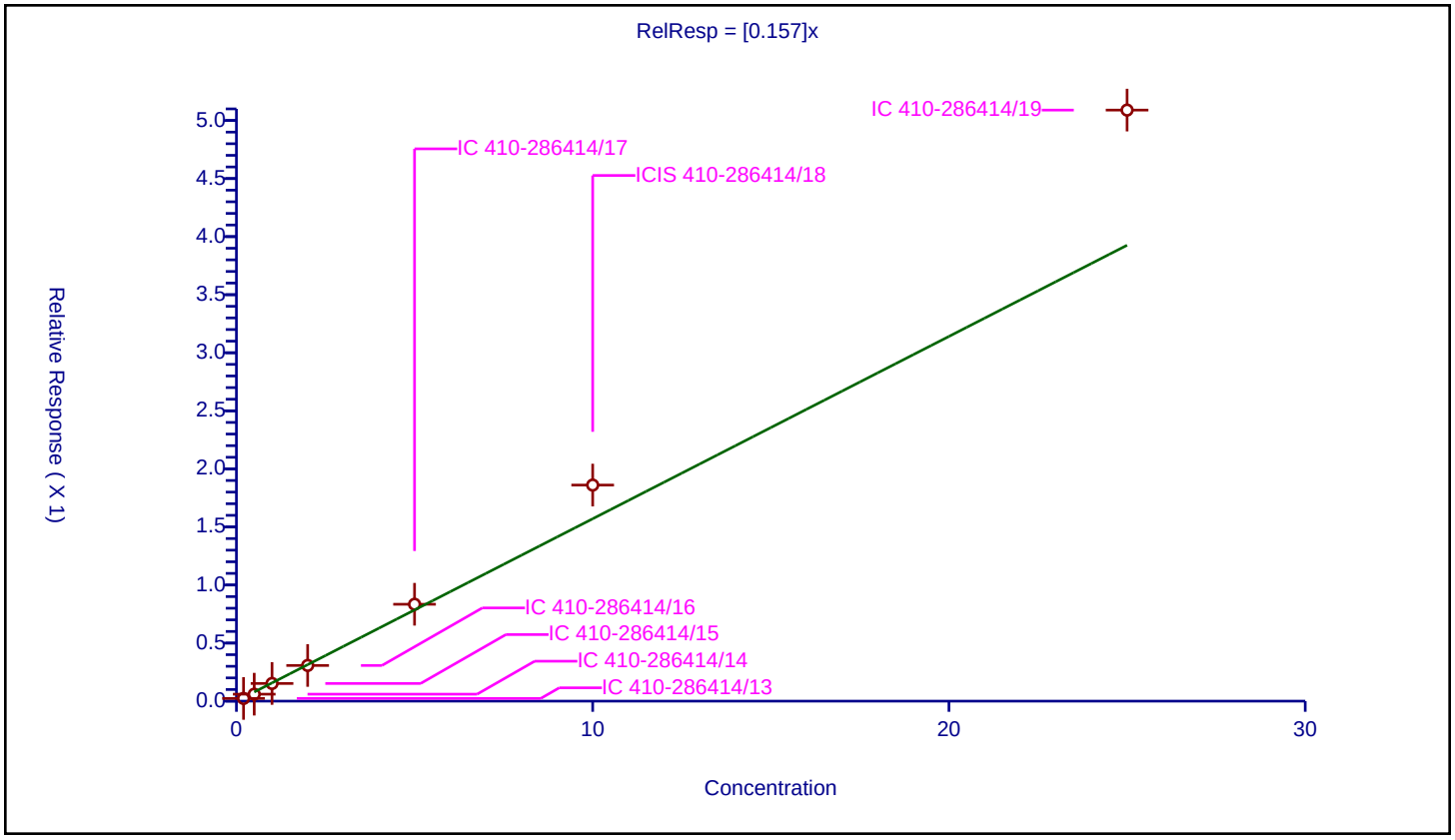
Curve Coefficients

Intercept:	0
Slope:	0.157

Error Coefficients

Standard Error:	422000
Relative Standard Error:	20.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.956

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.023391	10.0	1741668.0	0.116957	Y
2	IC 410-286414/14	0.5	0.059946	10.0	1755239.0	0.119893	Y
3	IC 410-286414/15	1.0	0.152288	10.0	1766319.0	0.152288	Y
4	IC 410-286414/16	2.0	0.307266	10.0	1767884.0	0.153633	Y
5	IC 410-286414/17	5.0	0.834213	10.0	1816359.0	0.166843	Y
6	ICIS 410-286414/18	10.0	1.860586	10.0	1837007.0	0.186059	Y
7	IC 410-286414/19	25.0	5.089729	10.0	1887193.0	0.203589	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

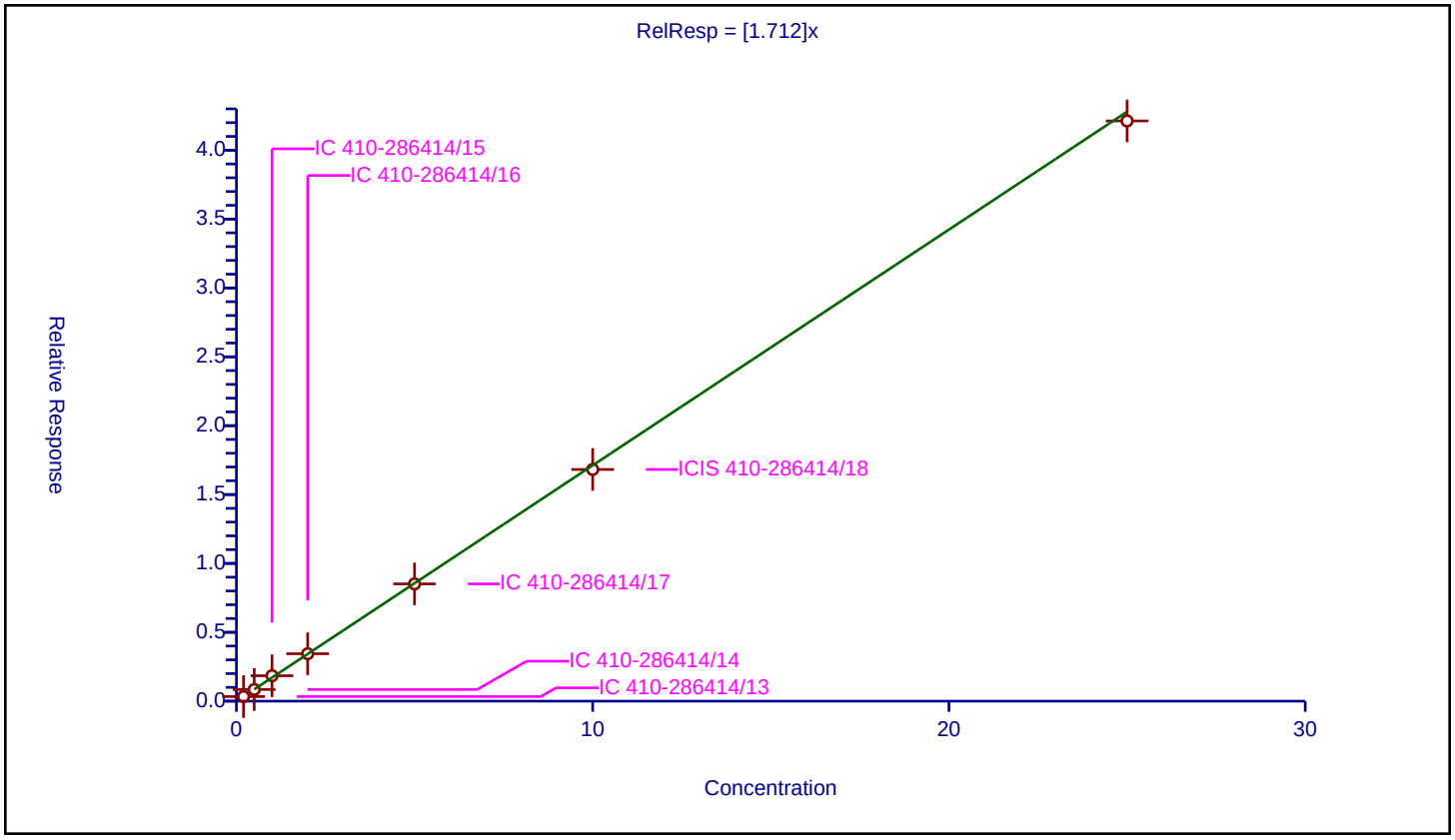
Curve Coefficients

Intercept:	0
Slope:	1.712

Error Coefficients

Standard Error:	3550000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.331056	10.0	1741668.0	1.655281	Y
2	IC 410-286414/14	0.5	0.845036	10.0	1755239.0	1.690072	Y
3	IC 410-286414/15	1.0	1.845901	10.0	1766319.0	1.845901	Y
4	IC 410-286414/16	2.0	3.44306	10.0	1767884.0	1.72153	Y
5	IC 410-286414/17	5.0	8.512811	10.0	1816359.0	1.702562	Y
6	ICIS 410-286414/18	10.0	16.820322	10.0	1837007.0	1.682032	Y
7	IC 410-286414/19	25.0	42.125411	10.0	1887193.0	1.685016	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

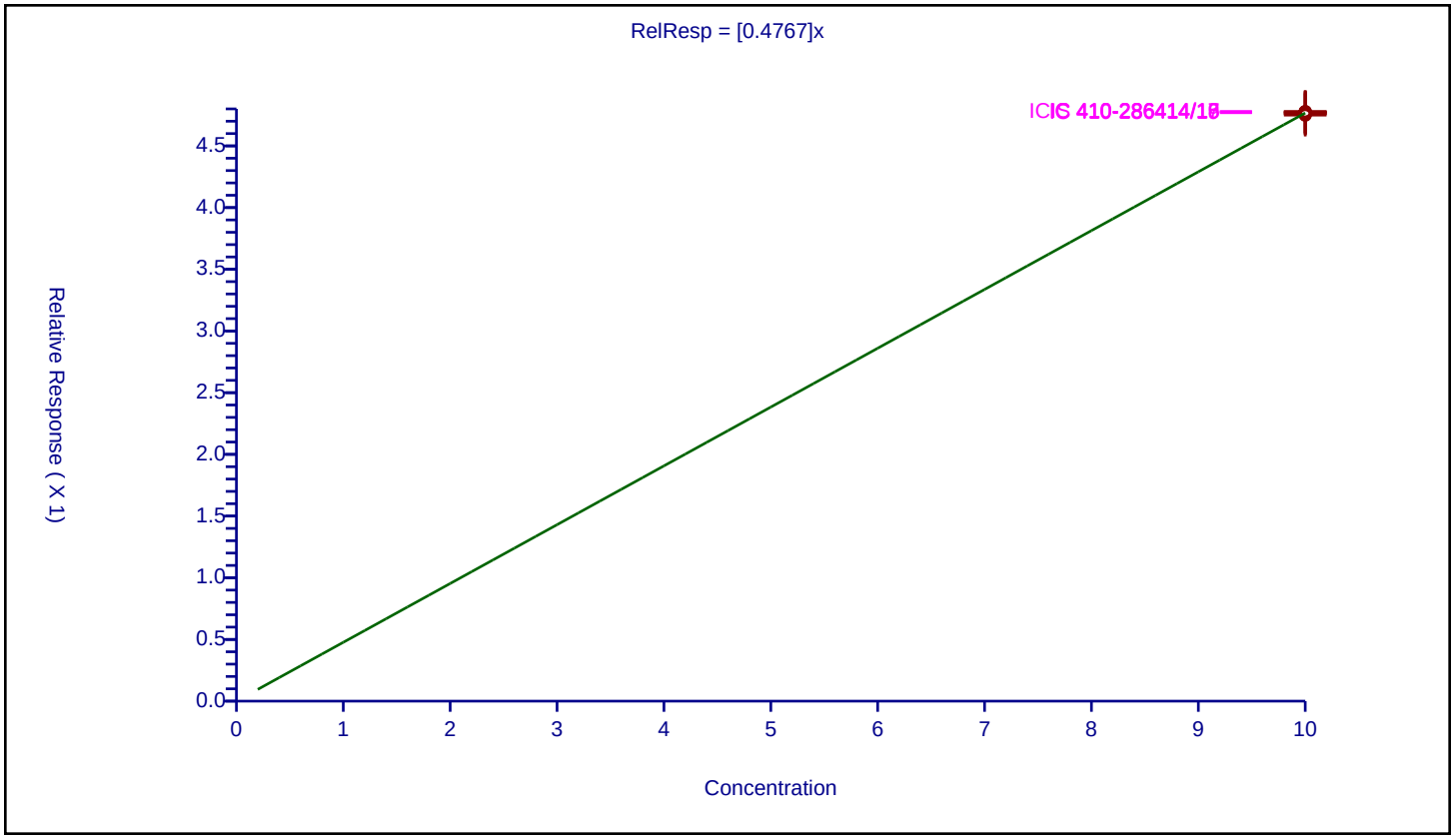
Curve Coefficients

Intercept:	0
Slope:	0.4767

Error Coefficients

Standard Error:	925000
Relative Standard Error:	0.2
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	4.749436	10.0	1741668.0	0.474944	Y
2	IC 410-286414/14	10.0	4.762468	10.0	1755239.0	0.476247	Y
3	IC 410-286414/15	10.0	4.758942	10.0	1766319.0	0.475894	Y
4	IC 410-286414/16	10.0	4.77688	10.0	1767884.0	0.477688	Y
5	IC 410-286414/17	10.0	4.77785	10.0	1816359.0	0.477785	Y
6	ICIS 410-286414/18	10.0	4.772921	10.0	1837007.0	0.477292	Y
7	IC 410-286414/19	10.0	4.768818	10.0	1887193.0	0.476882	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

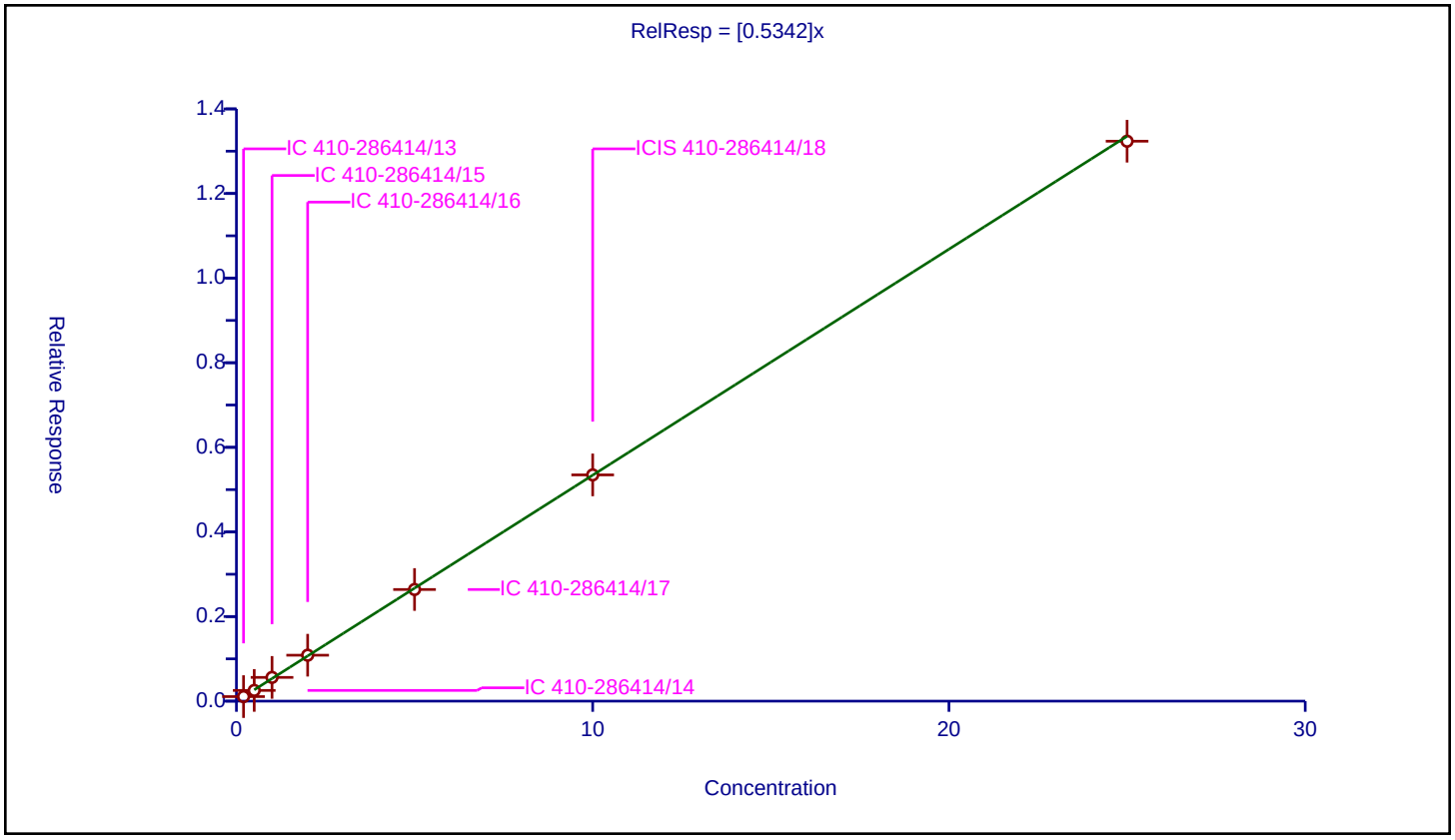
Curve Coefficients

Intercept:	0
Slope:	0.5342

Error Coefficients

Standard Error:	672000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.107247	10.0	1033318.0	0.536234	Y
2	IC 410-286414/14	0.5	0.25338	10.0	1047319.0	0.506761	Y
3	IC 410-286414/15	1.0	0.561163	10.0	1050836.0	0.561163	Y
4	IC 410-286414/16	2.0	1.085771	10.0	1056705.0	0.542886	Y
5	IC 410-286414/17	5.0	2.638885	10.0	1075545.0	0.527777	Y
6	ICIS 410-286414/18	10.0	5.347917	10.0	1096296.0	0.534792	Y
7	IC 410-286414/19	25.0	13.236061	10.0	1138282.0	0.529442	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

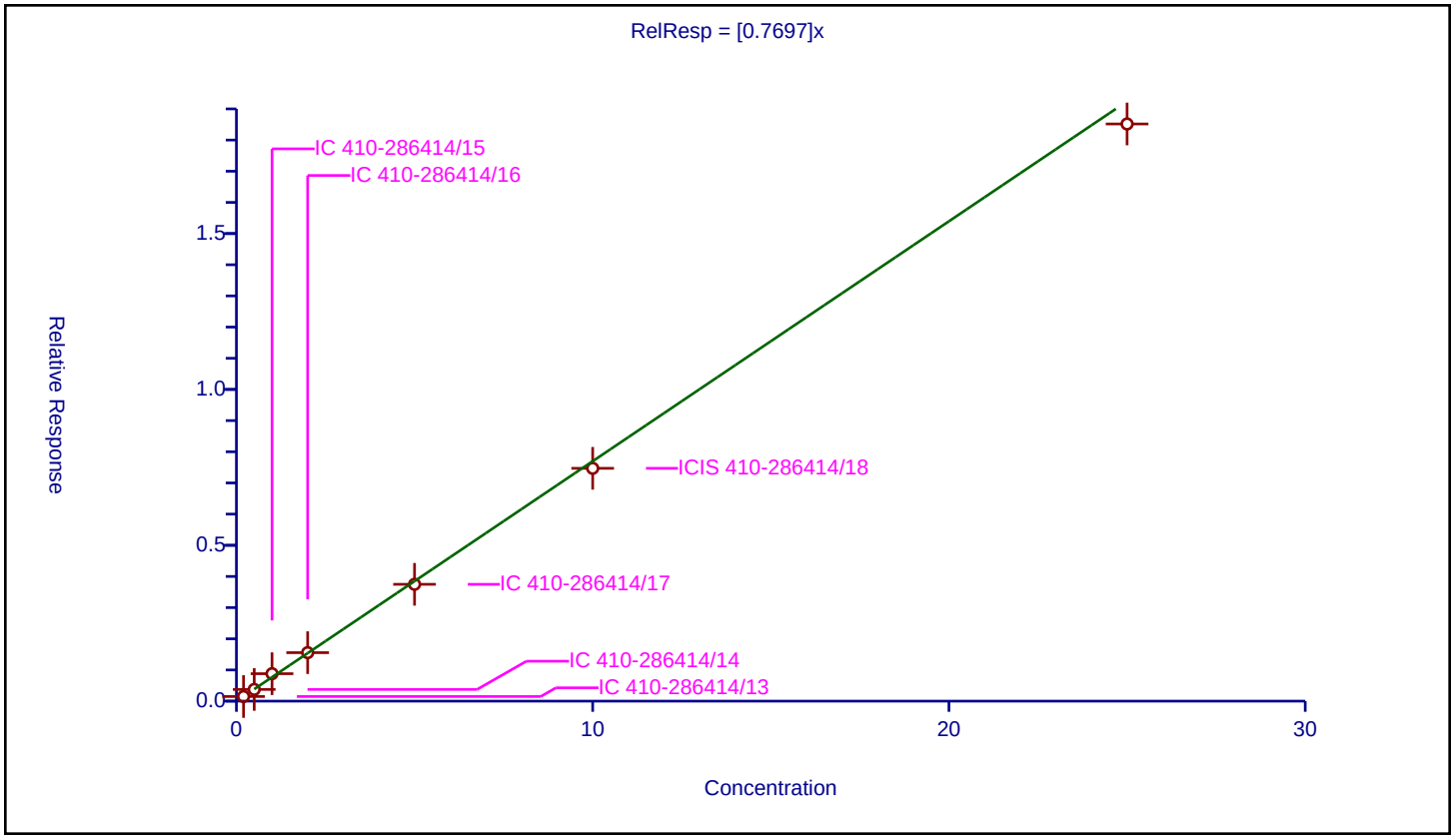
Curve Coefficients

Intercept:	0
Slope:	0.7697

Error Coefficients

Standard Error:	941000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.148434	10.0	1033318.0	0.742172	Y
2	IC 410-286414/14	0.5	0.375378	10.0	1047319.0	0.750755	Y
3	IC 410-286414/15	1.0	0.880109	10.0	1050836.0	0.880109	Y
4	IC 410-286414/16	2.0	1.555931	10.0	1056705.0	0.777965	Y
5	IC 410-286414/17	5.0	3.747886	10.0	1075545.0	0.749577	Y
6	ICIS 410-286414/18	10.0	7.468831	10.0	1096296.0	0.746883	Y
7	IC 410-286414/19	25.0	18.516361	10.0	1138282.0	0.740654	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

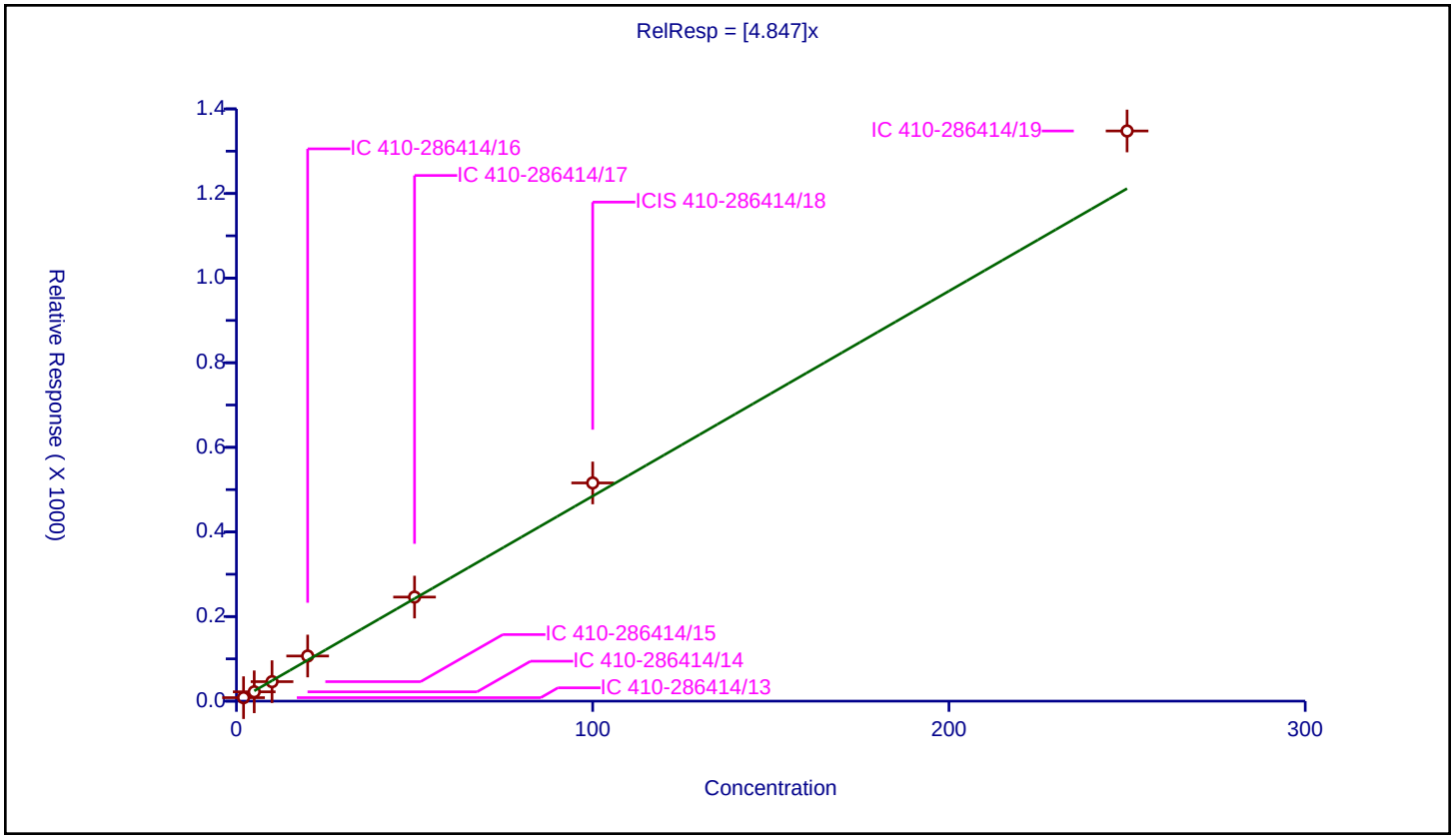
Curve Coefficients

Intercept:	0
Slope:	4.847

Error Coefficients

Standard Error:	1720000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	8.218576	50.0	133180.0	4.109288	Y
2	IC 410-286414/14	5.0	22.05193	50.0	128635.0	4.410386	Y
3	IC 410-286414/15	10.0	46.034847	50.0	136943.0	4.603485	Y
4	IC 410-286414/16	20.0	106.691243	50.0	124917.0	5.334562	Y
5	IC 410-286414/17	50.0	246.023452	50.0	141819.0	4.920469	Y
6	ICIS 410-286414/18	100.0	515.768432	50.0	142576.0	5.157684	Y
7	IC 410-286414/19	250.0	1347.796374	50.0	143695.0	5.391185	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

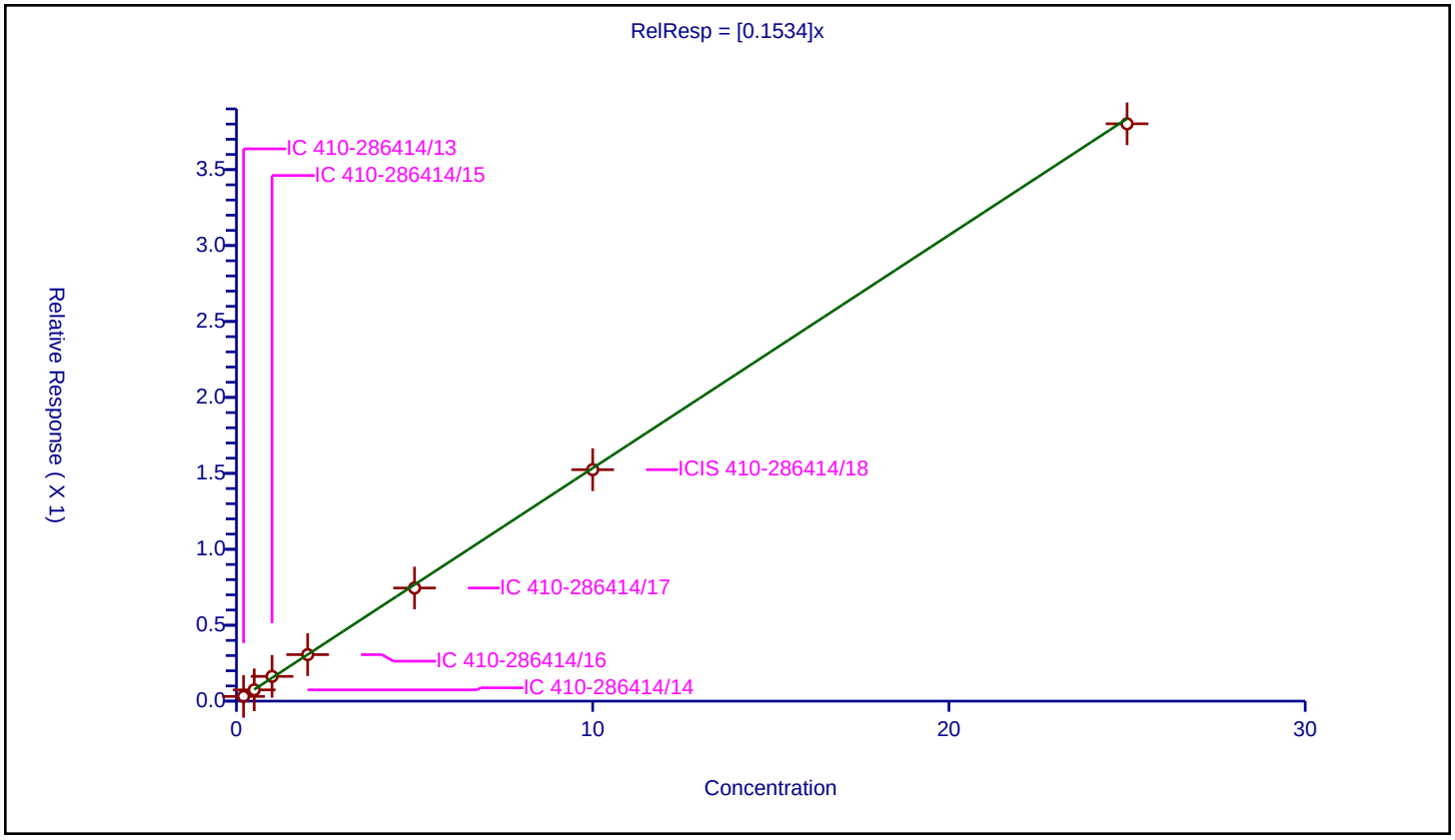
Curve Coefficients

Intercept:	0
Slope:	0.1534

Error Coefficients

Standard Error:	193000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.031133	10.0	1033318.0	0.155664	Y
2	IC 410-286414/14	0.5	0.074294	10.0	1047319.0	0.148589	Y
3	IC 410-286414/15	1.0	0.163042	10.0	1050836.0	0.163042	Y
4	IC 410-286414/16	2.0	0.306292	10.0	1056705.0	0.153146	Y
5	IC 410-286414/17	5.0	0.745027	10.0	1075545.0	0.149005	Y
6	ICIS 410-286414/18	10.0	1.524214	10.0	1096296.0	0.152421	Y
7	IC 410-286414/19	25.0	3.80187	10.0	1138282.0	0.152075	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

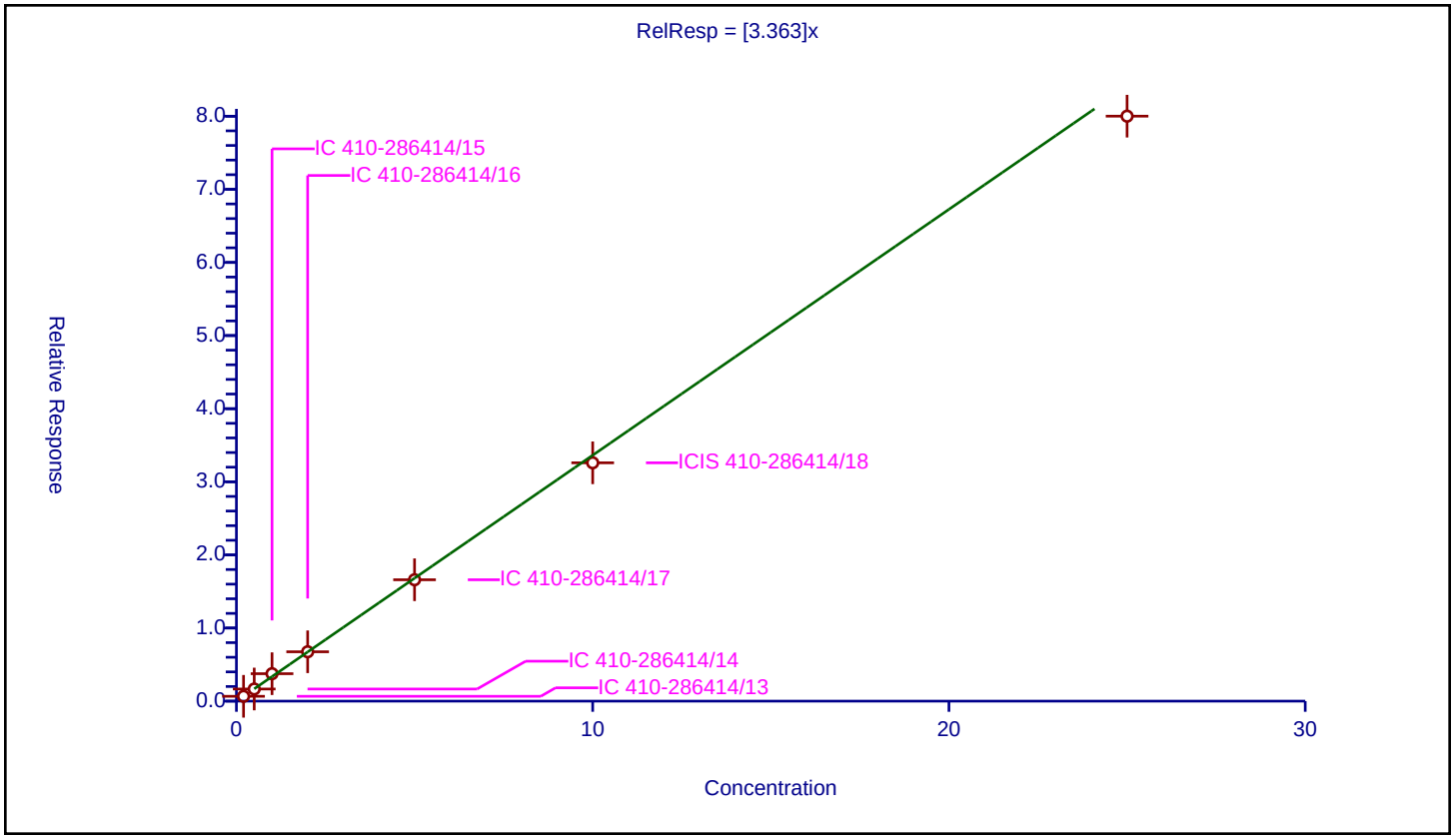
Curve Coefficients

Intercept:	0
Slope:	3.363

Error Coefficients

Standard Error:	4070000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.662671	10.0	1033318.0	3.313356	Y
2	IC 410-286414/14	0.5	1.658473	10.0	1047319.0	3.316945	Y
3	IC 410-286414/15	1.0	3.755315	10.0	1050836.0	3.755315	Y
4	IC 410-286414/16	2.0	6.749897	10.0	1056705.0	3.374949	Y
5	IC 410-286414/17	5.0	16.602978	10.0	1075545.0	3.320596	Y
6	ICIS 410-286414/18	10.0	32.594655	10.0	1096296.0	3.259466	Y
7	IC 410-286414/19	25.0	80.00427	10.0	1138282.0	3.200171	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

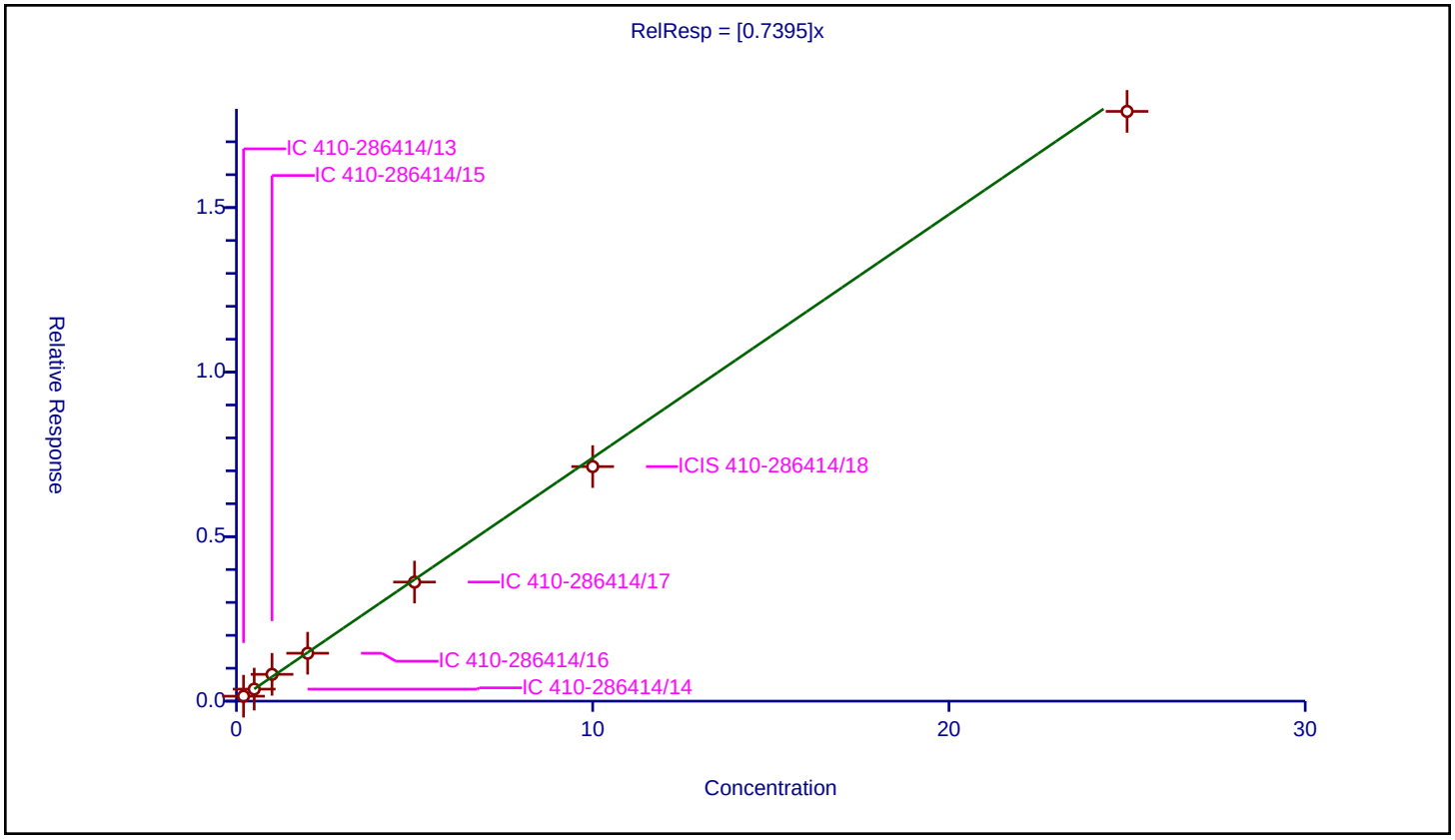
Curve Coefficients

Intercept:	0
Slope:	0.7395

Error Coefficients

Standard Error:	909000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.149876	10.0	1033318.0	0.749382	Y
2	IC 410-286414/14	0.5	0.365486	10.0	1047319.0	0.730971	Y
3	IC 410-286414/15	1.0	0.81477	10.0	1050836.0	0.81477	Y
4	IC 410-286414/16	2.0	1.456073	10.0	1056705.0	0.728037	Y
5	IC 410-286414/17	5.0	3.618389	10.0	1075545.0	0.723678	Y
6	ICIS 410-286414/18	10.0	7.128467	10.0	1096296.0	0.712847	Y
7	IC 410-286414/19	25.0	17.923669	10.0	1138282.0	0.716947	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

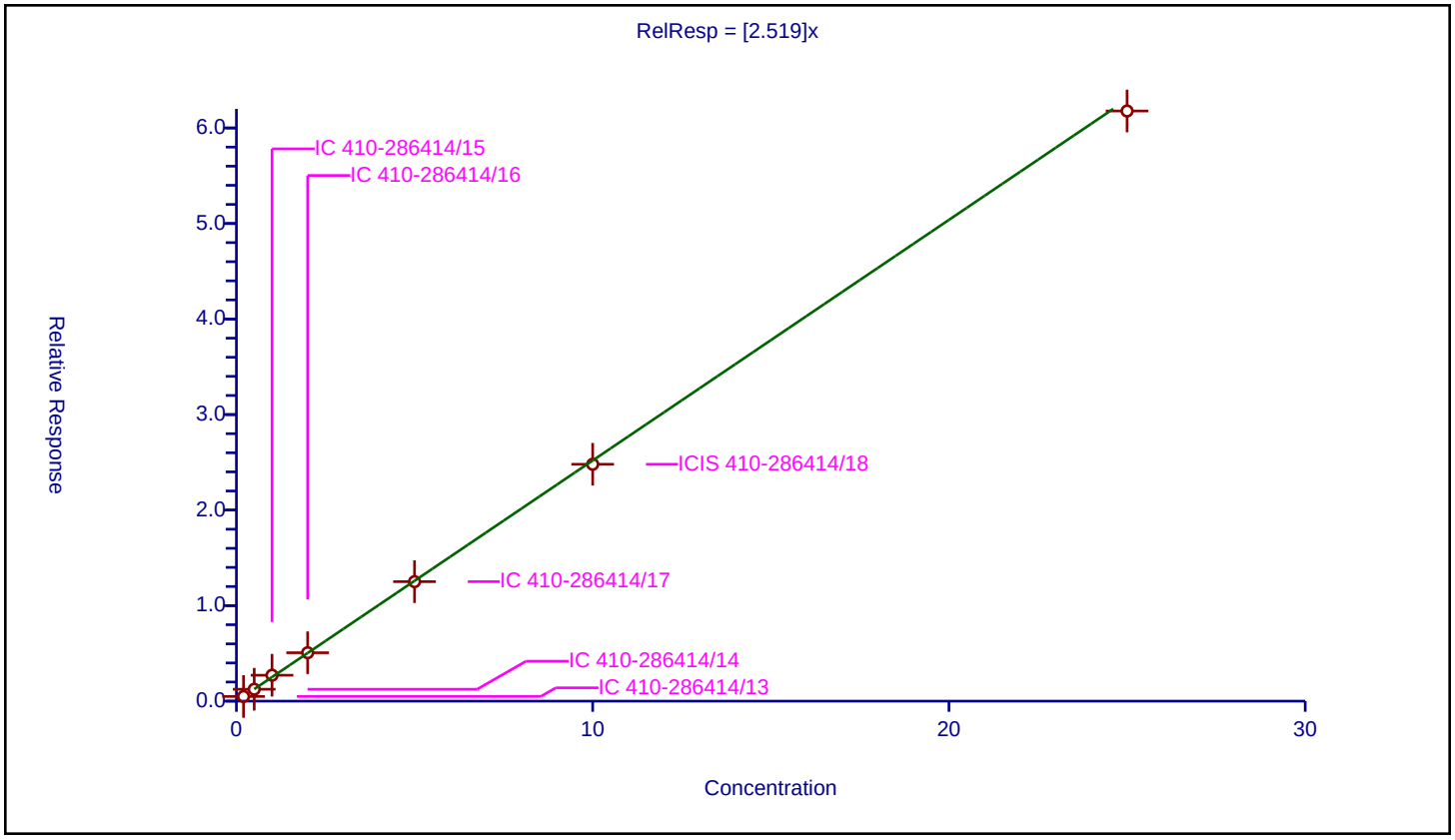
Curve Coefficients

Intercept:	0
Slope:	2.519

Error Coefficients

Standard Error:	3140000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.48924	10.0	1033318.0	2.446198	Y
2	IC 410-286414/14	0.5	1.245475	10.0	1047319.0	2.490951	Y
3	IC 410-286414/15	1.0	2.710661	10.0	1050836.0	2.710661	Y
4	IC 410-286414/16	2.0	5.066882	10.0	1056705.0	2.533441	Y
5	IC 410-286414/17	5.0	12.508431	10.0	1075545.0	2.501686	Y
6	ICIS 410-286414/18	10.0	24.796916	10.0	1096296.0	2.479692	Y
7	IC 410-286414/19	25.0	61.779603	10.0	1138282.0	2.471184	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

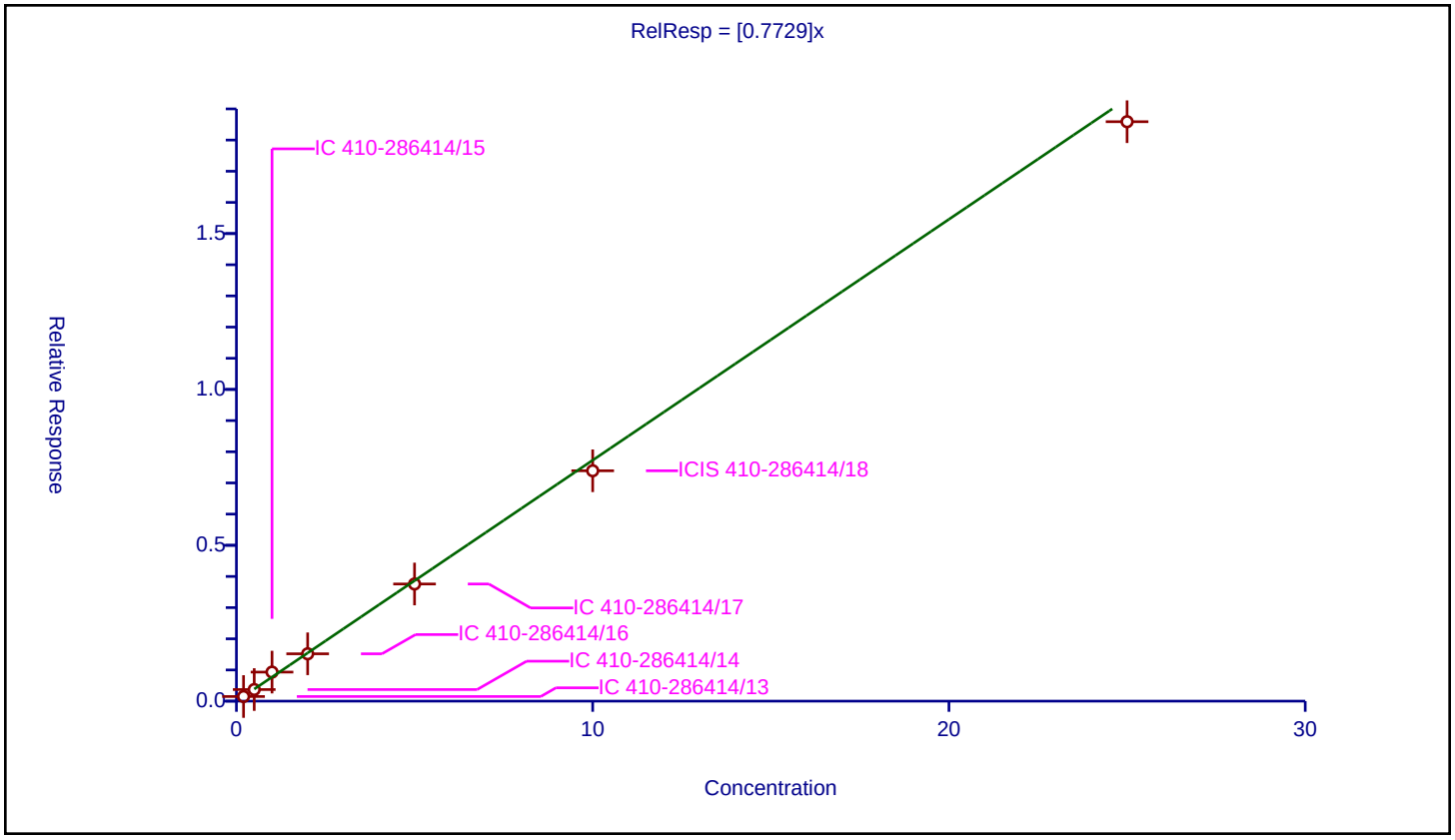
Curve Coefficients

Intercept:	0
Slope:	0.7729

Error Coefficients

Standard Error:	943000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.148038	10.0	1033318.0	0.740188	Y
2	IC 410-286414/14	0.5	0.372389	10.0	1047319.0	0.744778	Y
3	IC 410-286414/15	1.0	0.931554	10.0	1050836.0	0.931554	Y
4	IC 410-286414/16	2.0	1.518428	10.0	1056705.0	0.759214	Y
5	IC 410-286414/17	5.0	3.758411	10.0	1075545.0	0.751682	Y
6	ICIS 410-286414/18	10.0	7.390668	10.0	1096296.0	0.739067	Y
7	IC 410-286414/19	25.0	18.588988	10.0	1138282.0	0.74356	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

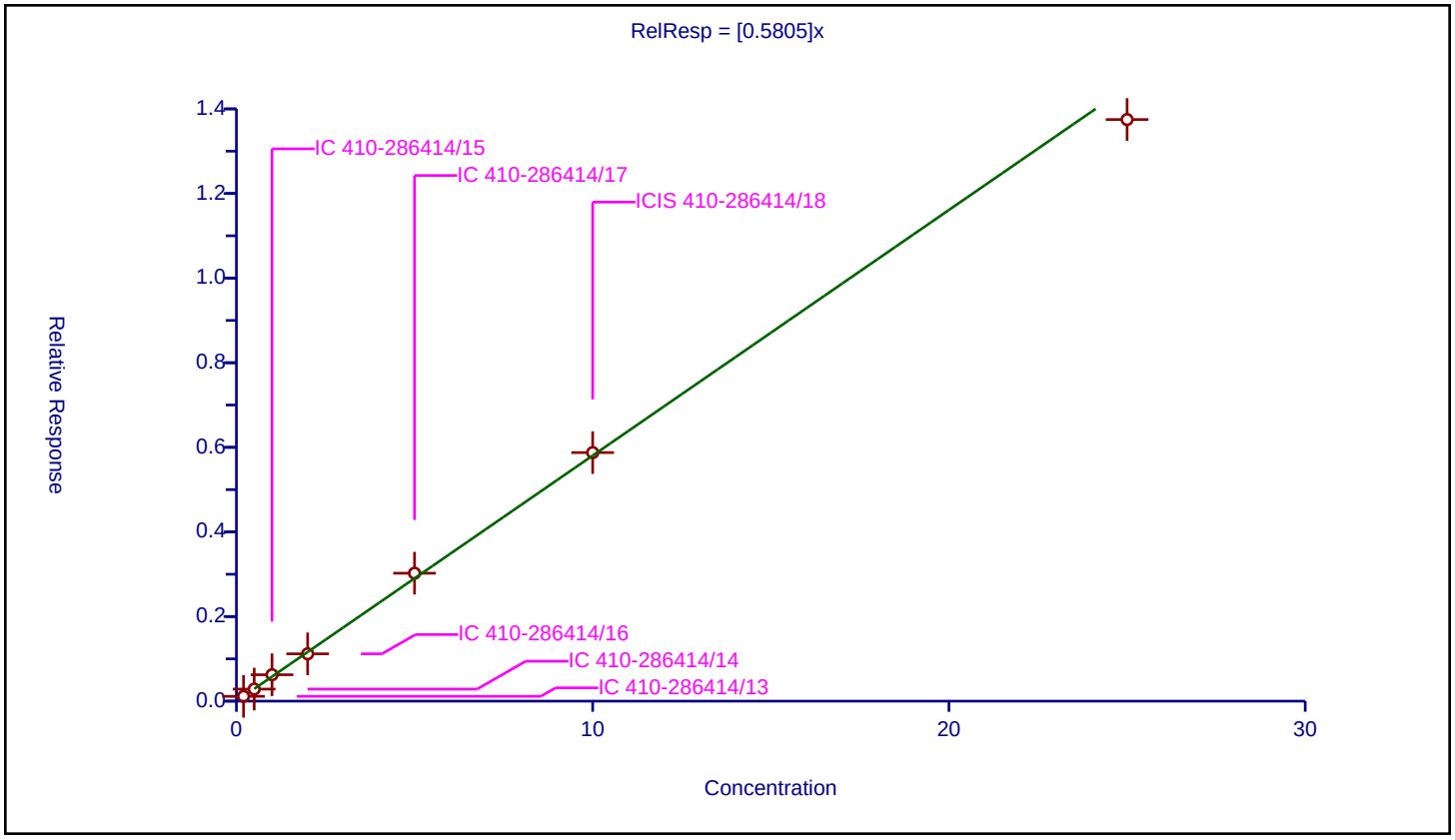
Curve Coefficients

Intercept:	0
Slope:	0.5805

Error Coefficients

Standard Error:	706000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.113498	10.0	1033318.0	0.567492	Y
2	IC 410-286414/14	0.5	0.285023	10.0	1047319.0	0.570046	Y
3	IC 410-286414/15	1.0	0.624531	10.0	1050836.0	0.624531	Y
4	IC 410-286414/16	2.0	1.118694	10.0	1056705.0	0.559347	Y
5	IC 410-286414/17	5.0	3.023992	10.0	1075545.0	0.604798	Y
6	ICIS 410-286414/18	10.0	5.87553	10.0	1096296.0	0.587553	Y
7	IC 410-286414/19	25.0	13.748324	10.0	1138282.0	0.549933	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

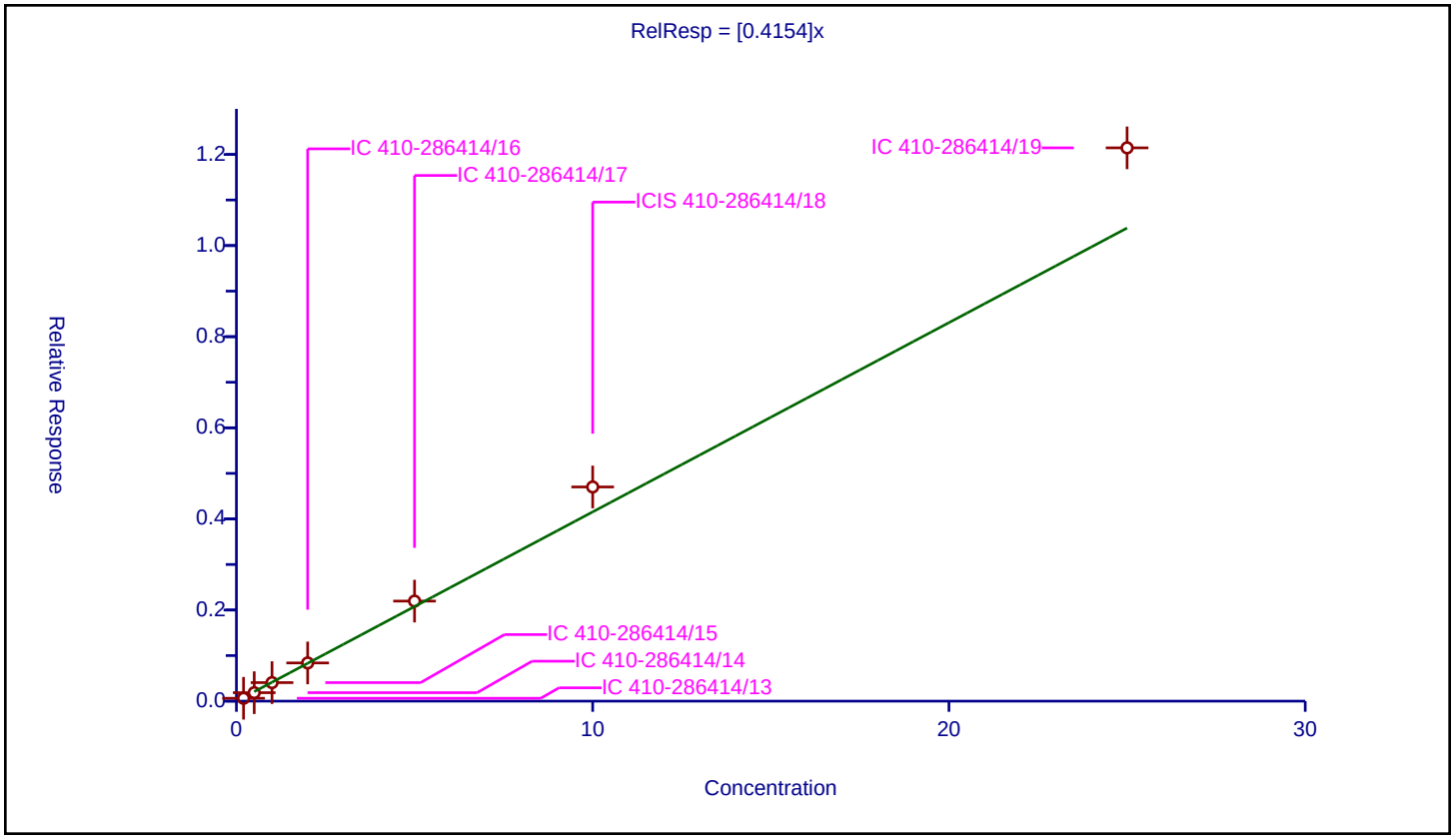
Curve Coefficients

Intercept:	0
Slope:	0.4154

Error Coefficients

Standard Error:	611000
Relative Standard Error:	14.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.063107	10.0	1033318.0	0.315537	Y
2	IC 410-286414/14	0.5	0.185569	10.0	1047319.0	0.371138	Y
3	IC 410-286414/15	1.0	0.406629	10.0	1050836.0	0.406629	Y
4	IC 410-286414/16	2.0	0.838588	10.0	1056705.0	0.419294	Y
5	IC 410-286414/17	5.0	2.196384	10.0	1075545.0	0.439277	Y
6	ICIS 410-286414/18	10.0	4.70113	10.0	1096296.0	0.470113	Y
7	IC 410-286414/19	25.0	12.144618	10.0	1138282.0	0.485785	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

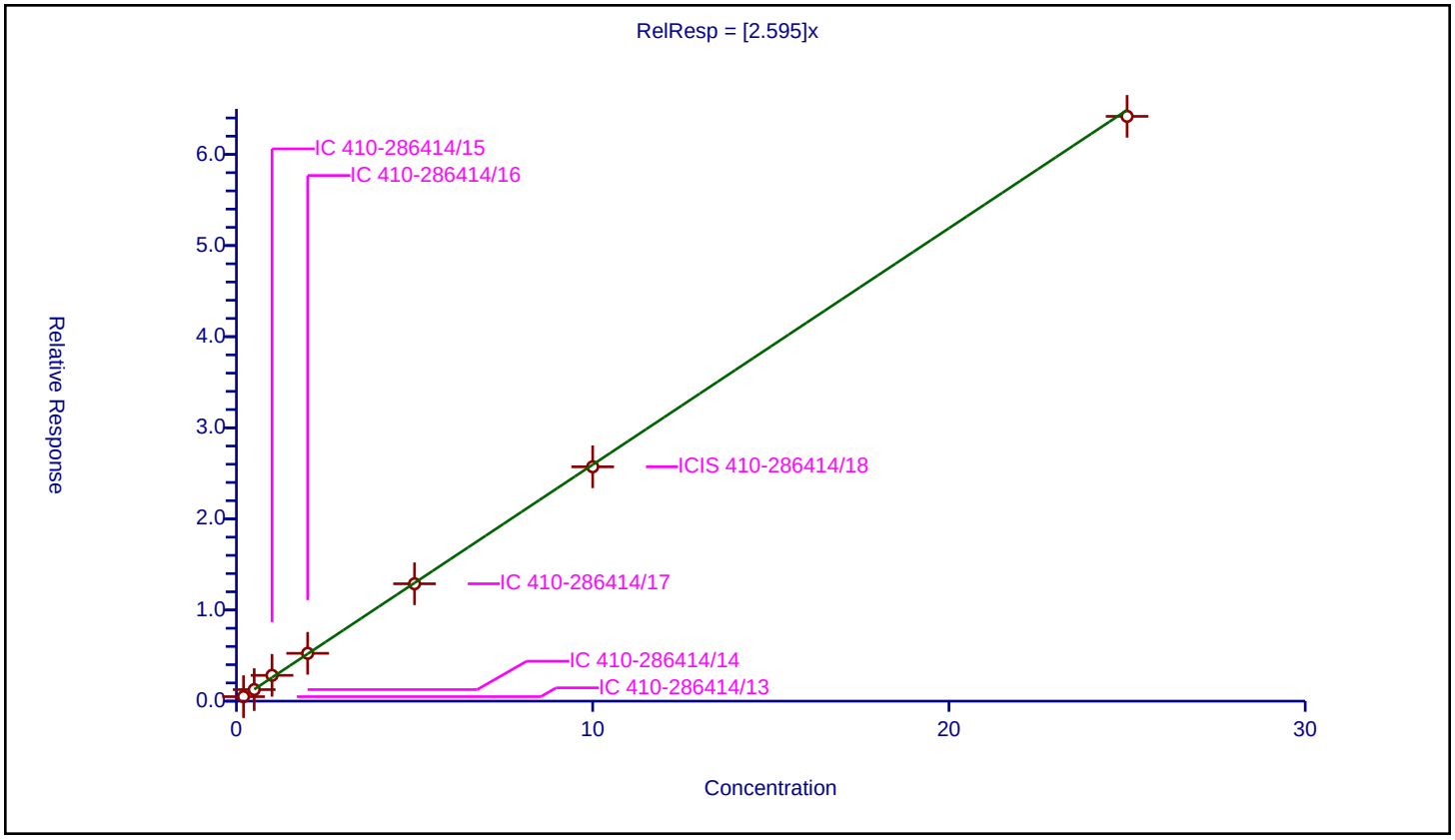
Curve Coefficients

Intercept:	0
Slope:	2.595

Error Coefficients

Standard Error:	3260000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.492356	10.0	1033318.0	2.461778	Y
2	IC 410-286414/14	0.5	1.267102	10.0	1047319.0	2.534204	Y
3	IC 410-286414/15	1.0	2.829985	10.0	1050836.0	2.829985	Y
4	IC 410-286414/16	2.0	5.248892	10.0	1056705.0	2.624446	Y
5	IC 410-286414/17	5.0	12.881376	10.0	1075545.0	2.576275	Y
6	ICIS 410-286414/18	10.0	25.720481	10.0	1096296.0	2.572048	Y
7	IC 410-286414/19	25.0	64.180265	10.0	1138282.0	2.567211	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

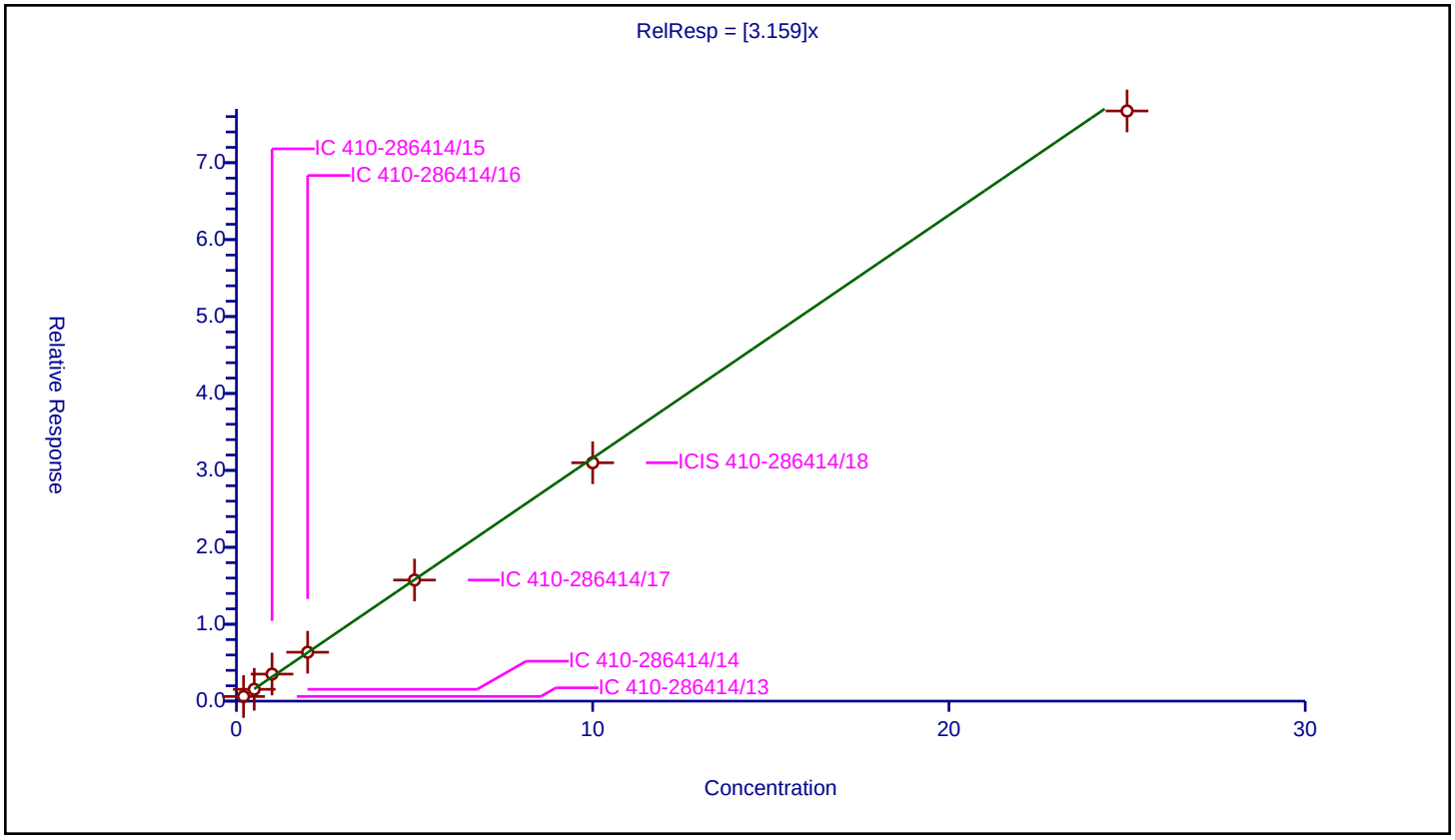
Curve Coefficients

Intercept:	0
Slope:	3.159

Error Coefficients

Standard Error:	3900000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.60418	10.0	1033318.0	3.0209	Y
2	IC 410-286414/14	0.5	1.540849	10.0	1047319.0	3.081697	Y
3	IC 410-286414/15	1.0	3.516143	10.0	1050836.0	3.516143	Y
4	IC 410-286414/16	2.0	6.360328	10.0	1056705.0	3.180164	Y
5	IC 410-286414/17	5.0	15.743563	10.0	1075545.0	3.148713	Y
6	ICIS 410-286414/18	10.0	30.994531	10.0	1096296.0	3.099453	Y
7	IC 410-286414/19	25.0	76.729273	10.0	1138282.0	3.069171	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

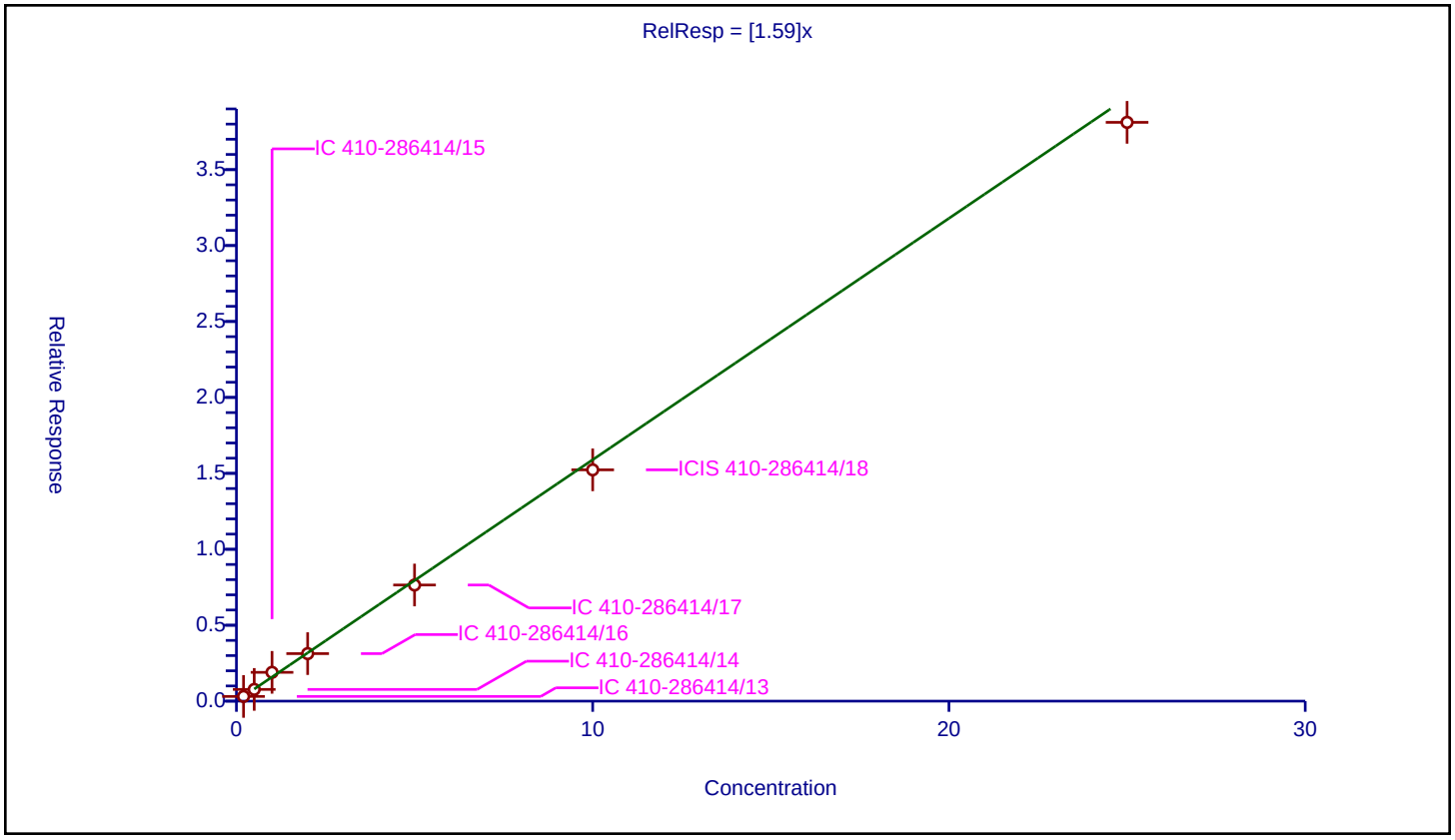
Curve Coefficients

Intercept:	0
Slope:	1.59

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.30884	10.0	1033318.0	1.5442	Y
2	IC 410-286414/14	0.5	0.772649	10.0	1047319.0	1.545298	Y
3	IC 410-286414/15	1.0	1.896024	10.0	1050836.0	1.896024	Y
4	IC 410-286414/16	2.0	3.129208	10.0	1056705.0	1.564604	Y
5	IC 410-286414/17	5.0	7.647332	10.0	1075545.0	1.529466	Y
6	ICIS 410-286414/18	10.0	15.231744	10.0	1096296.0	1.523174	Y
7	IC 410-286414/19	25.0	38.113886	10.0	1138282.0	1.524555	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

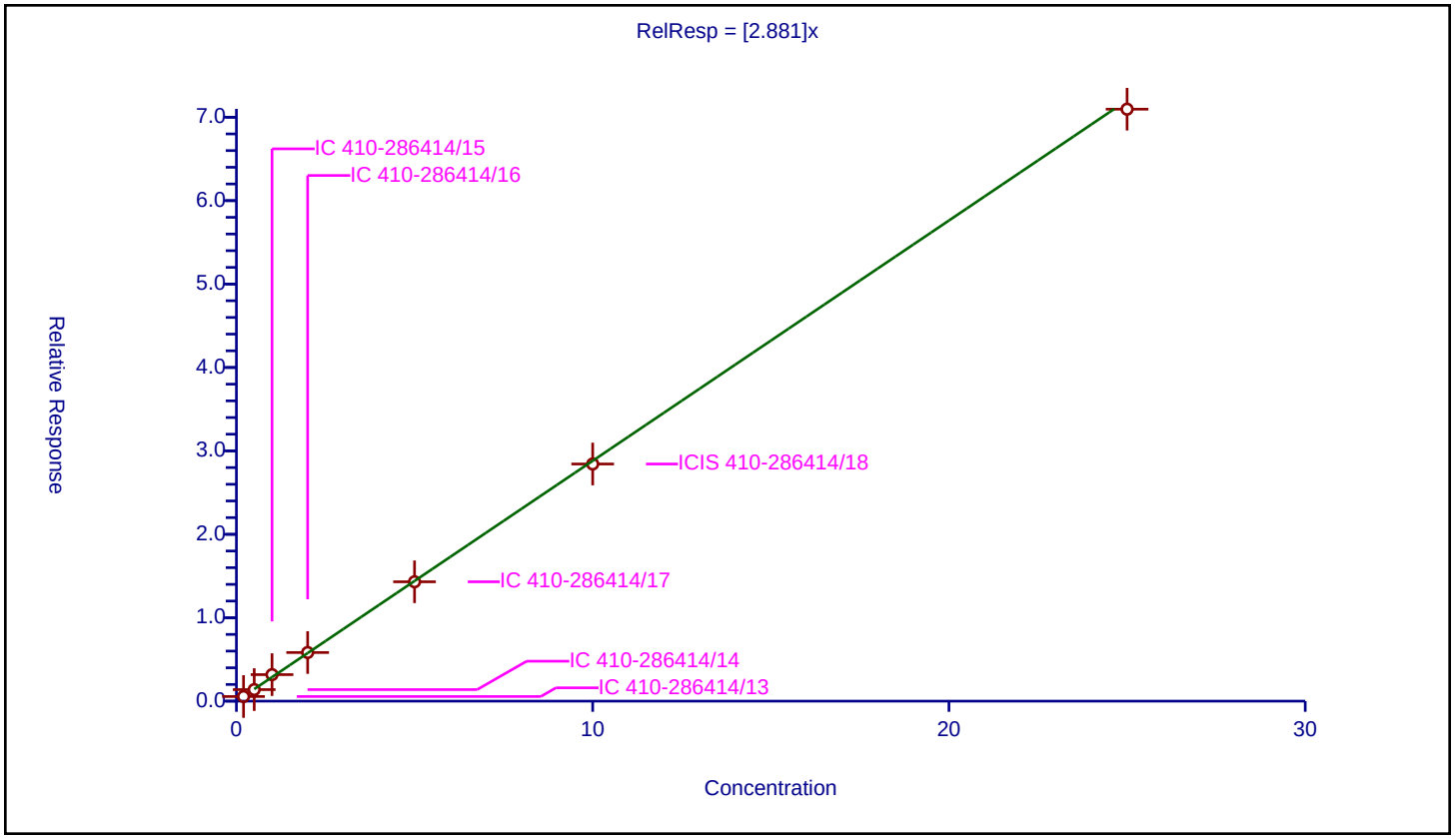
Curve Coefficients

Intercept:	0
Slope:	2.881

Error Coefficients

Standard Error:	3600000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.552792	10.0	1033318.0	2.76396	Y
2	IC 410-286414/14	0.5	1.384182	10.0	1047319.0	2.768364	Y
3	IC 410-286414/15	1.0	3.17748	10.0	1050836.0	3.17748	Y
4	IC 410-286414/16	2.0	5.827606	10.0	1056705.0	2.913803	Y
5	IC 410-286414/17	5.0	14.308681	10.0	1075545.0	2.861736	Y
6	ICIS 410-286414/18	10.0	28.428554	10.0	1096296.0	2.842855	Y
7	IC 410-286414/19	25.0	70.964937	10.0	1138282.0	2.838597	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

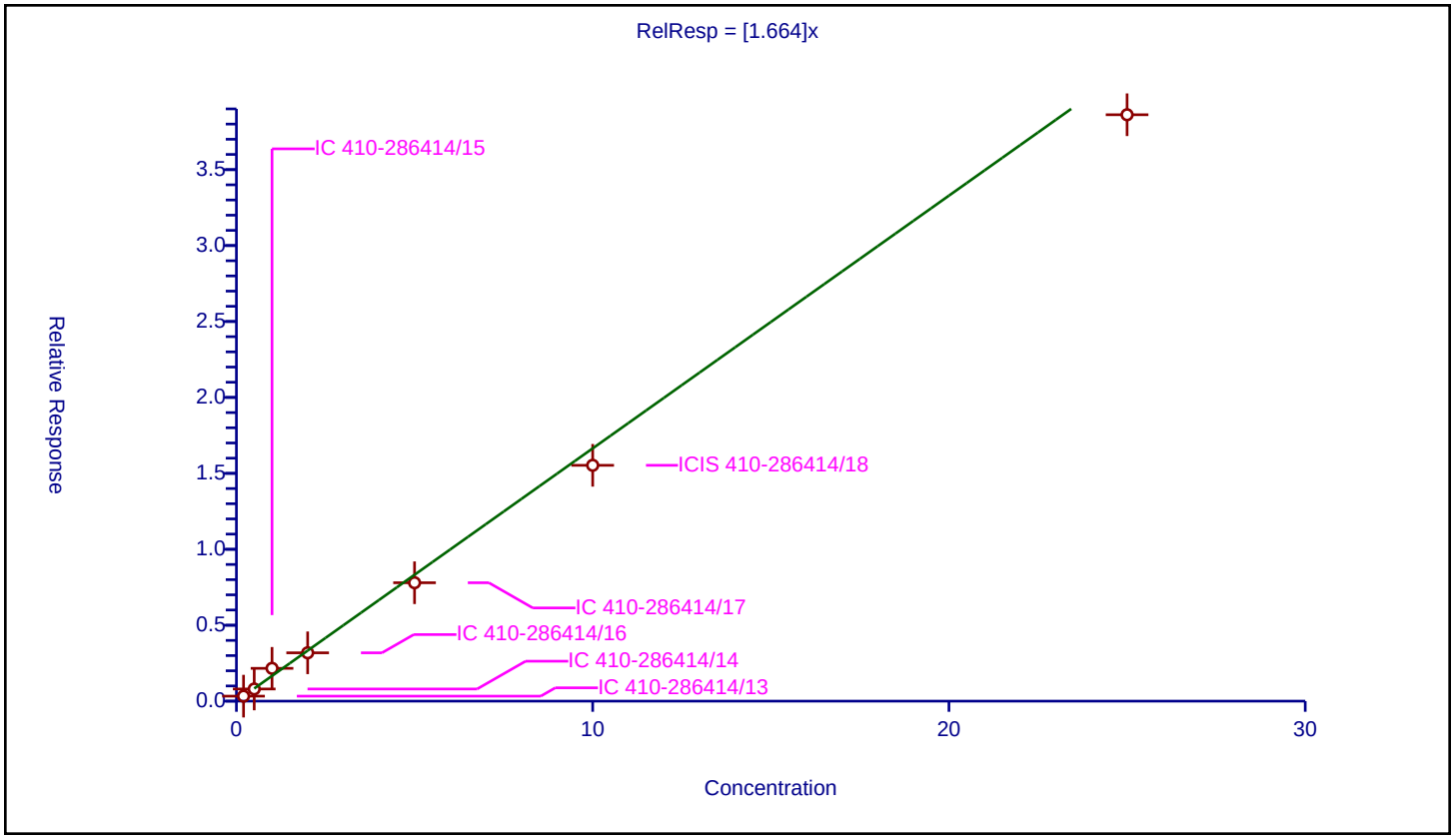
Curve Coefficients

Intercept:	0
Slope:	1.664

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	13.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.328108	10.0	1033318.0	1.64054	Y
2	IC 410-286414/14	0.5	0.800568	10.0	1047319.0	1.601136	Y
3	IC 410-286414/15	1.0	2.160518	10.0	1050836.0	2.160518	Y
4	IC 410-286414/16	2.0	3.182818	10.0	1056705.0	1.591409	Y
5	IC 410-286414/17	5.0	7.797312	10.0	1075545.0	1.559462	Y
6	ICIS 410-286414/18	10.0	15.52962	10.0	1096296.0	1.552962	Y
7	IC 410-286414/19	25.0	38.613973	10.0	1138282.0	1.544559	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

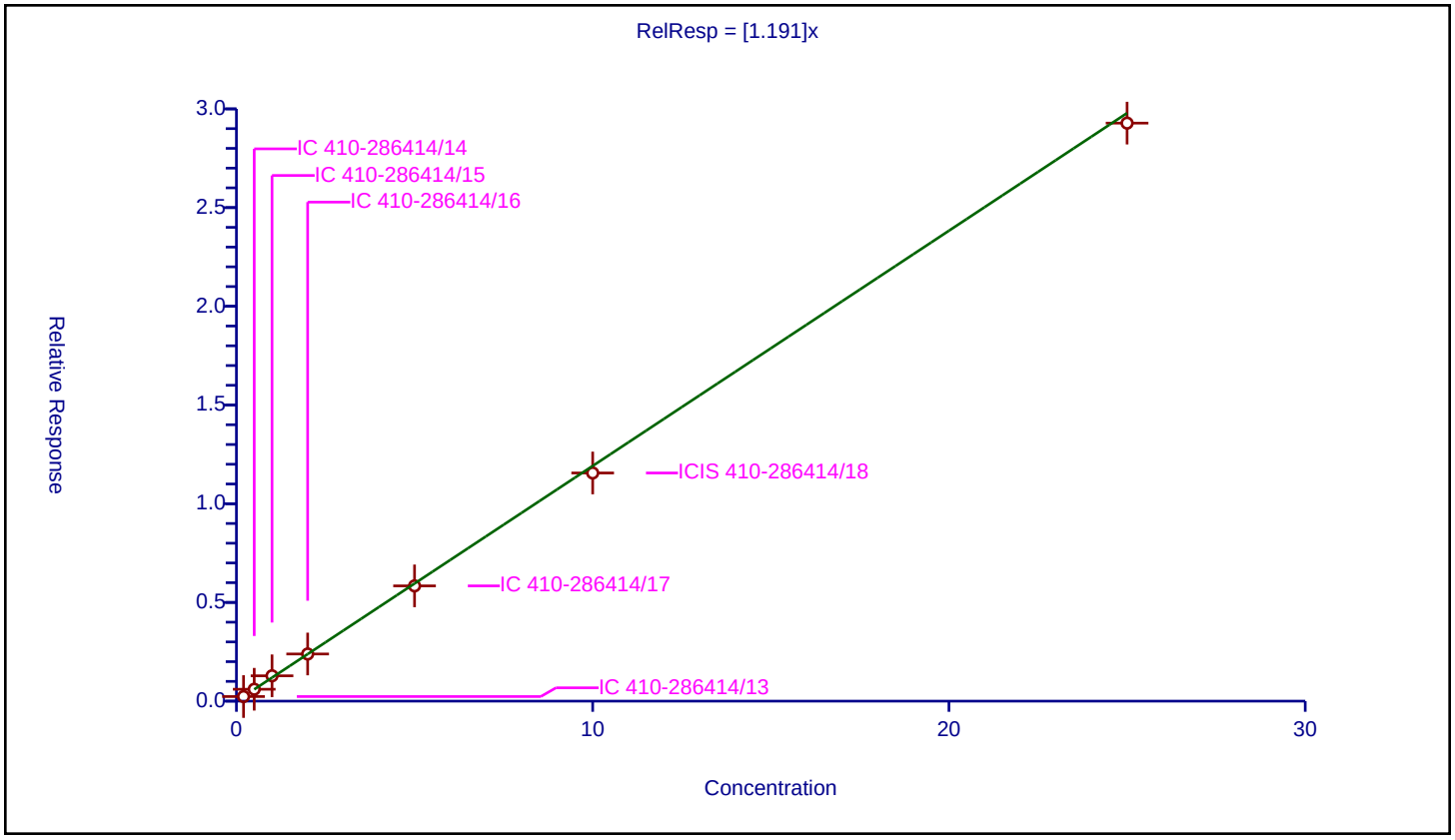
Curve Coefficients

Intercept:	0
Slope:	1.191

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.232445	10.0	1033318.0	1.162227	Y
2	IC 410-286414/14	0.5	0.602682	10.0	1047319.0	1.205363	Y
3	IC 410-286414/15	1.0	1.28394	10.0	1050836.0	1.28394	Y
4	IC 410-286414/16	2.0	2.388282	10.0	1056705.0	1.194141	Y
5	IC 410-286414/17	5.0	5.837859	10.0	1075545.0	1.167572	Y
6	ICIS 410-286414/18	10.0	11.557235	10.0	1096296.0	1.155723	Y
7	IC 410-286414/19	25.0	29.279168	10.0	1138282.0	1.171167	Y



Calibration / Benzyl chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

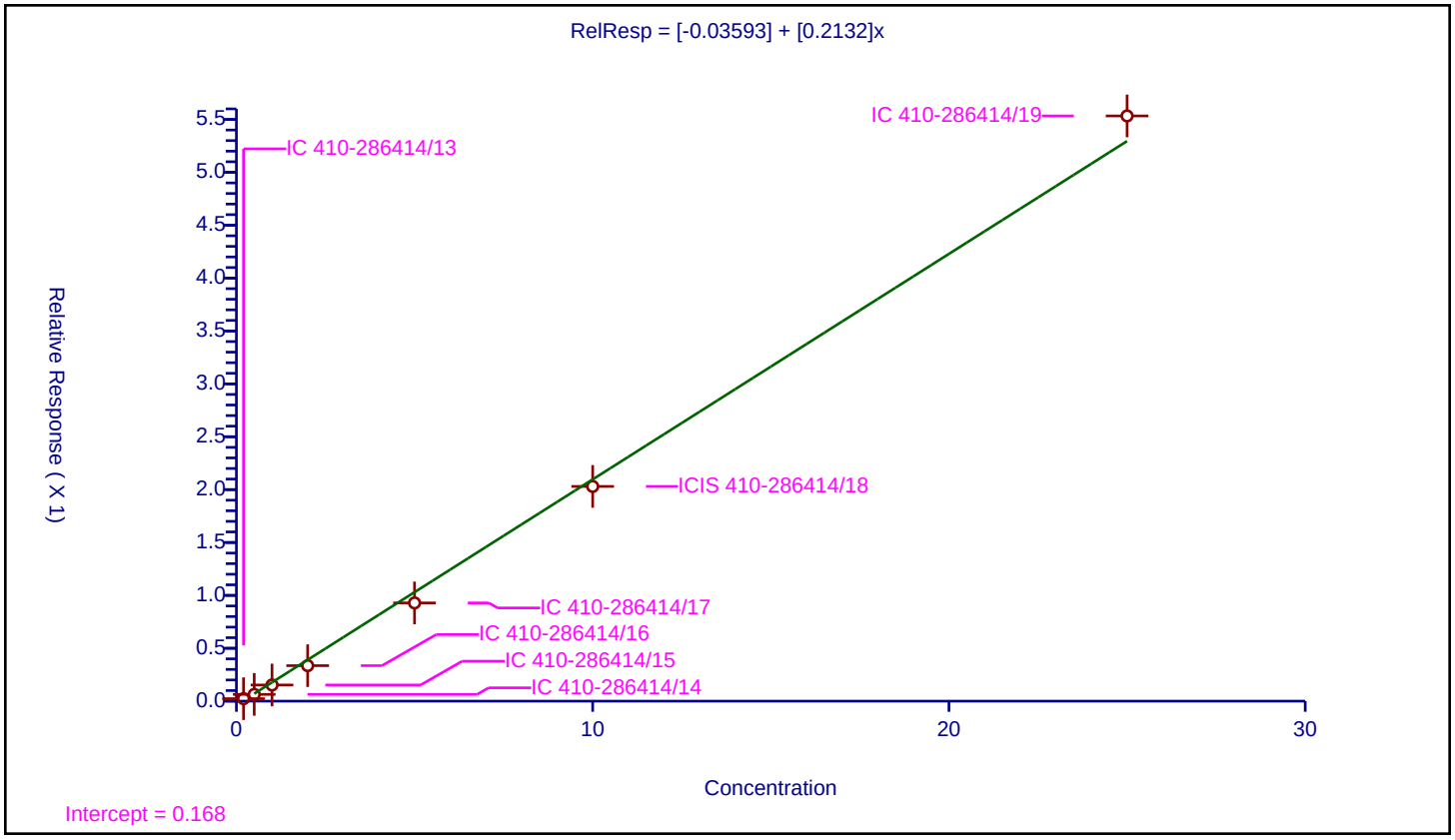
Curve Coefficients

Intercept:	-0.03593
Slope:	0.2132

Error Coefficients

Standard Error:	303000
Relative Standard Error:	19.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.023362	10.0	1033318.0	0.116808	Y
2	IC 410-286414/14	0.5	0.063858	10.0	1047319.0	0.127717	Y
3	IC 410-286414/15	1.0	0.152831	10.0	1050836.0	0.152831	Y
4	IC 410-286414/16	2.0	0.335477	10.0	1056705.0	0.167738	Y
5	IC 410-286414/17	5.0	0.928655	10.0	1075545.0	0.185731	Y
6	ICIS 410-286414/18	10.0	2.03009	10.0	1096296.0	0.203009	Y
7	IC 410-286414/19	25.0	5.533216	10.0	1138282.0	0.221329	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

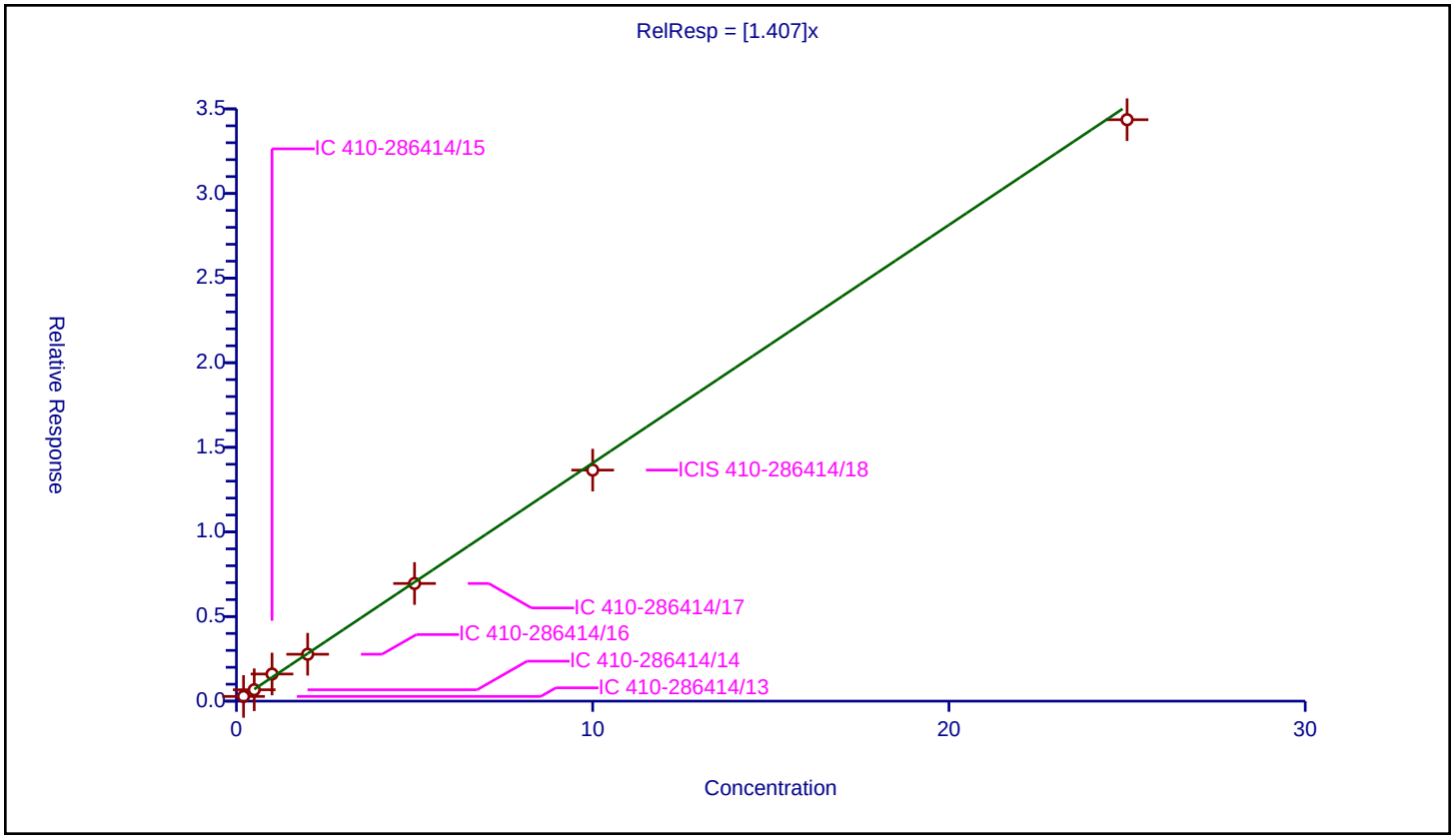
Curve Coefficients

Intercept:	0
Slope:	1.407

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.277204	10.0	1033318.0	1.386021	Y
2	IC 410-286414/14	0.5	0.672393	10.0	1047319.0	1.344786	Y
3	IC 410-286414/15	1.0	1.603485	10.0	1050836.0	1.603485	Y
4	IC 410-286414/16	2.0	2.77048	10.0	1056705.0	1.38524	Y
5	IC 410-286414/17	5.0	6.953219	10.0	1075545.0	1.390644	Y
6	ICIS 410-286414/18	10.0	13.653977	10.0	1096296.0	1.365398	Y
7	IC 410-286414/19	25.0	34.361055	10.0	1138282.0	1.374442	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

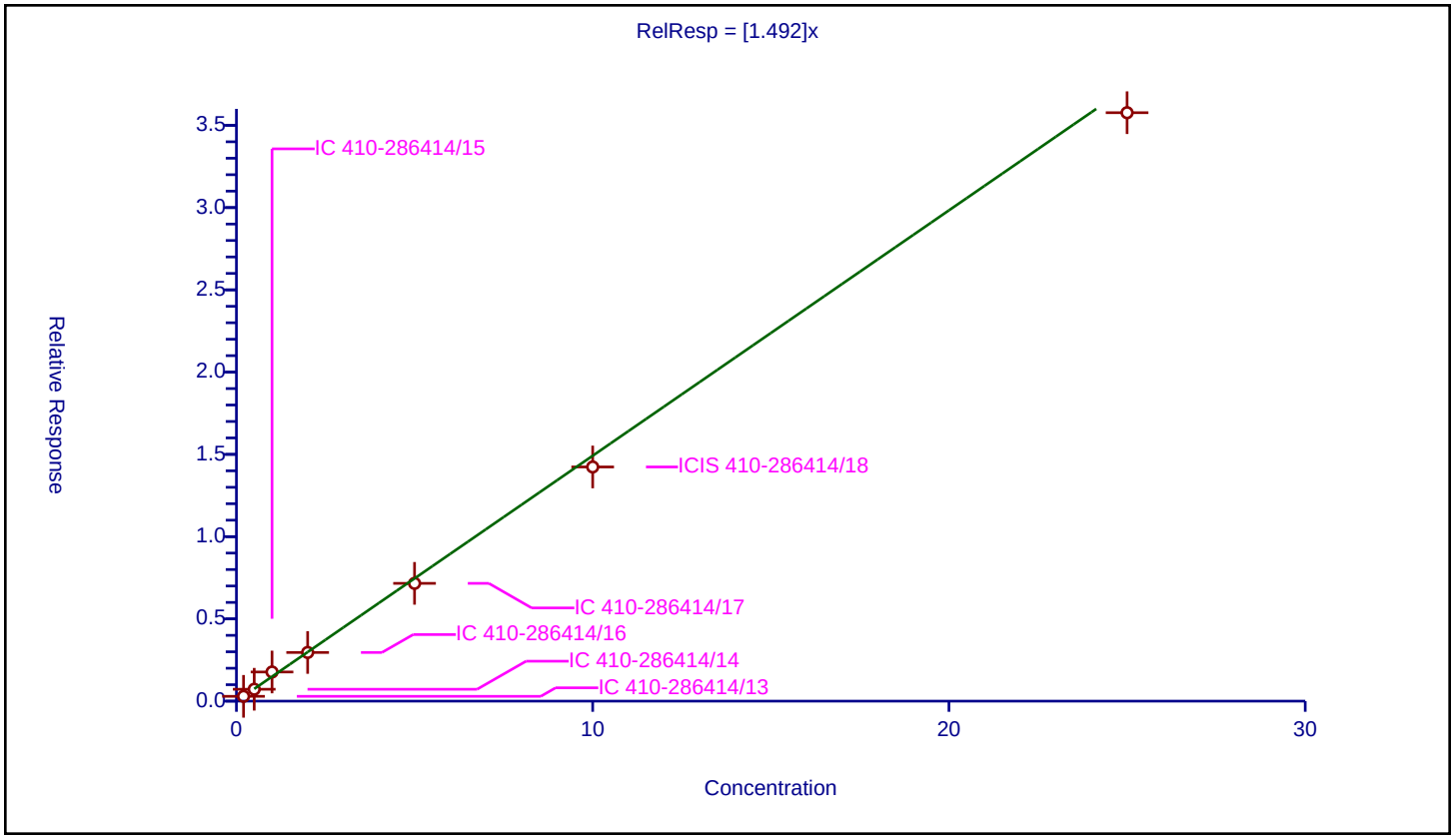
Curve Coefficients

Intercept:	0
Slope:	1.492

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.291875	10.0	1033318.0	1.459376	Y
2	IC 410-286414/14	0.5	0.722846	10.0	1047319.0	1.445691	Y
3	IC 410-286414/15	1.0	1.771361	10.0	1050836.0	1.771361	Y
4	IC 410-286414/16	2.0	2.958044	10.0	1056705.0	1.479022	Y
5	IC 410-286414/17	5.0	7.159663	10.0	1075545.0	1.431933	Y
6	ICIS 410-286414/18	10.0	14.234477	10.0	1096296.0	1.423448	Y
7	IC 410-286414/19	25.0	35.767956	10.0	1138282.0	1.430718	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

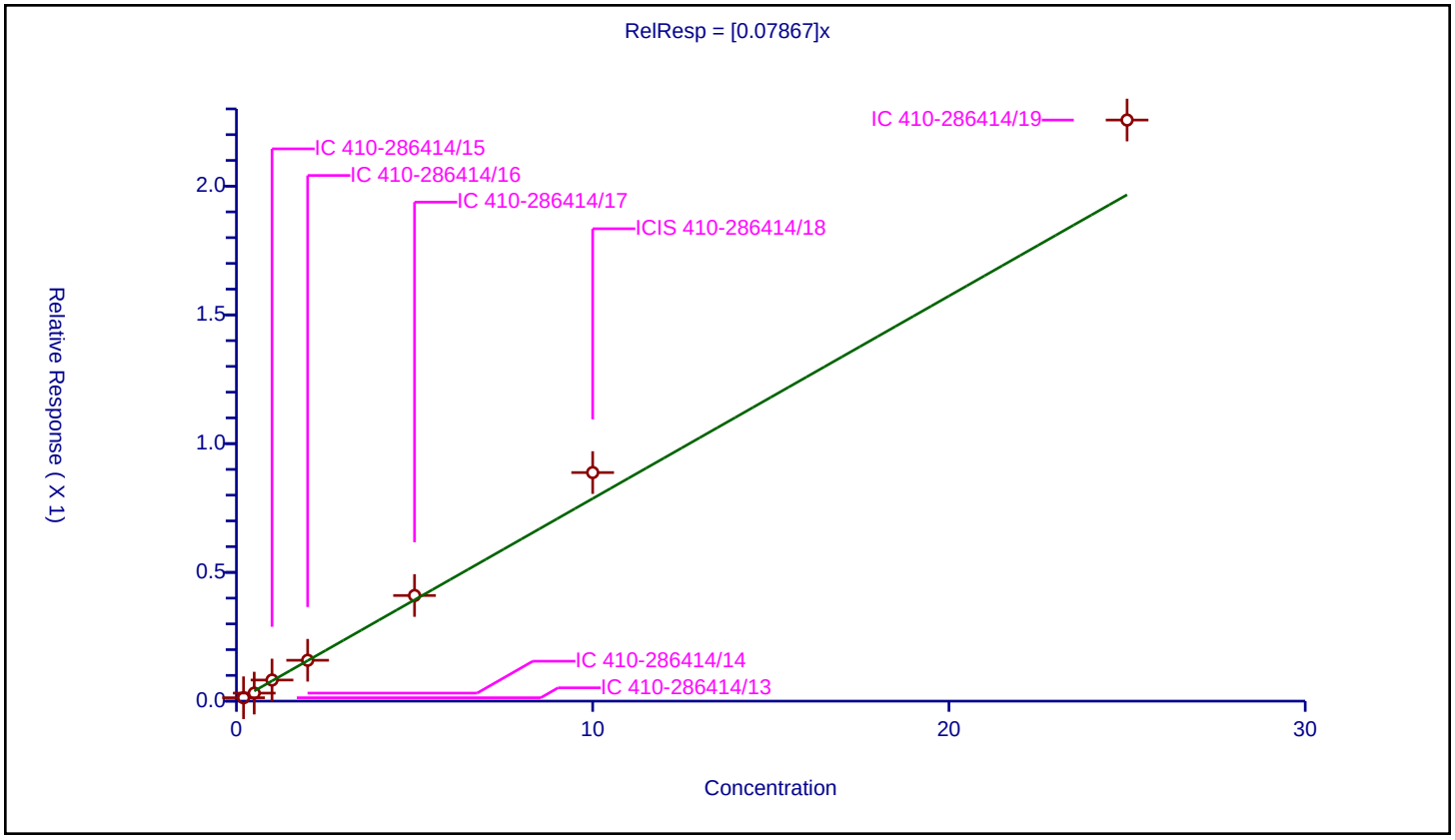
Curve Coefficients

Intercept:	0
Slope:	0.07867

Error Coefficients

Standard Error:	114000
Relative Standard Error:	13.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.013152	10.0	1033318.0	0.065759	Y
2	IC 410-286414/14	0.5	0.031223	10.0	1047319.0	0.062445	Y
3	IC 410-286414/15	1.0	0.08202	10.0	1050836.0	0.08202	Y
4	IC 410-286414/16	2.0	0.158701	10.0	1056705.0	0.07935	Y
5	IC 410-286414/17	5.0	0.410239	10.0	1075545.0	0.082048	Y
6	ICIS 410-286414/18	10.0	0.887726	10.0	1096296.0	0.088773	Y
7	IC 410-286414/19	25.0	2.256787	10.0	1138282.0	0.090271	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

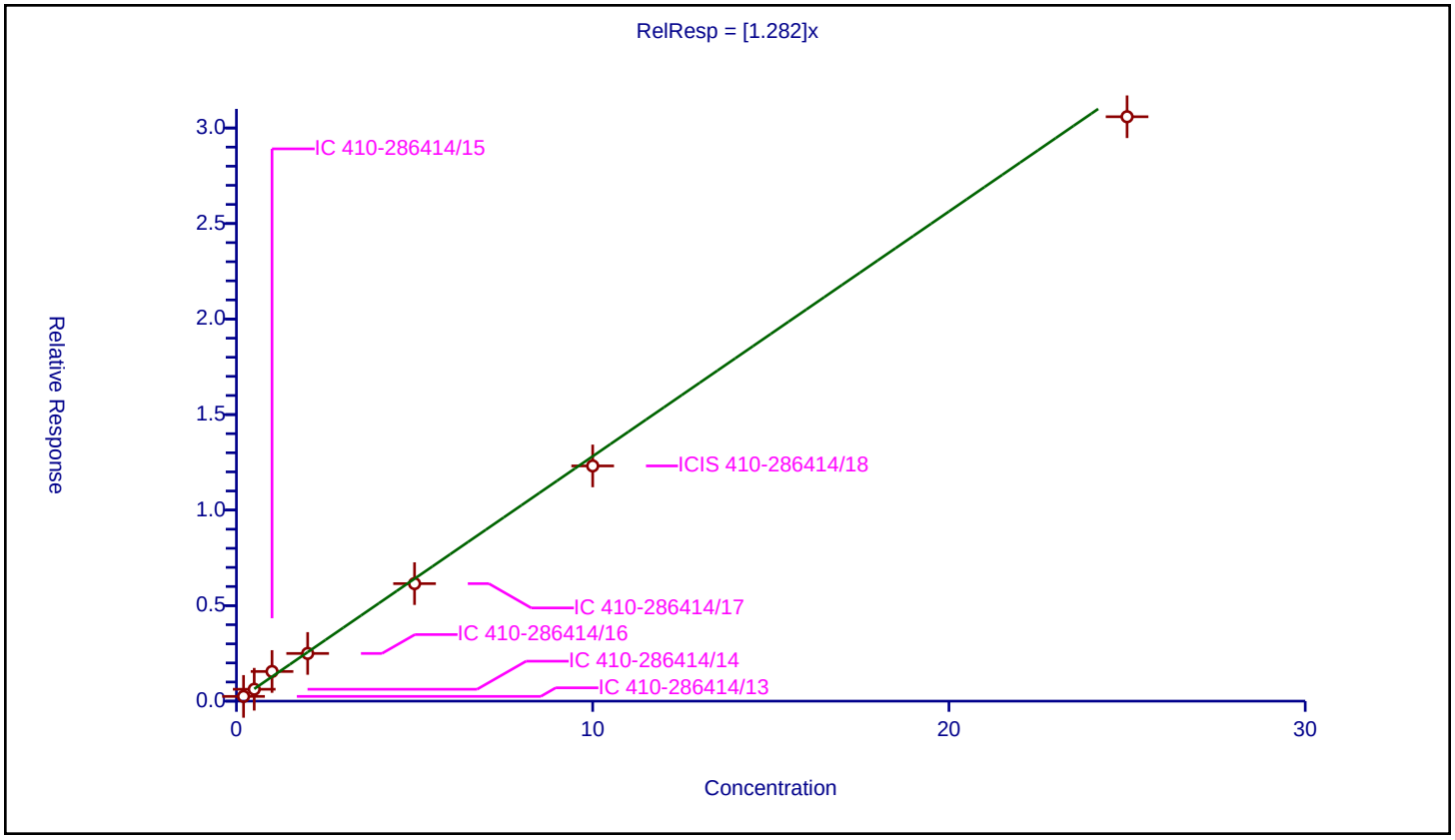
Curve Coefficients

Intercept:	0
Slope:	1.282

Error Coefficients

Standard Error:	1550000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.2479	10.0	1033318.0	1.239502	Y
2	IC 410-286414/14	0.5	0.622504	10.0	1047319.0	1.245007	Y
3	IC 410-286414/15	1.0	1.552688	10.0	1050836.0	1.552688	Y
4	IC 410-286414/16	2.0	2.496562	10.0	1056705.0	1.248281	Y
5	IC 410-286414/17	5.0	6.151849	10.0	1075545.0	1.23037	Y
6	ICIS 410-286414/18	10.0	12.311939	10.0	1096296.0	1.231194	Y
7	IC 410-286414/19	25.0	30.589379	10.0	1138282.0	1.223575	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

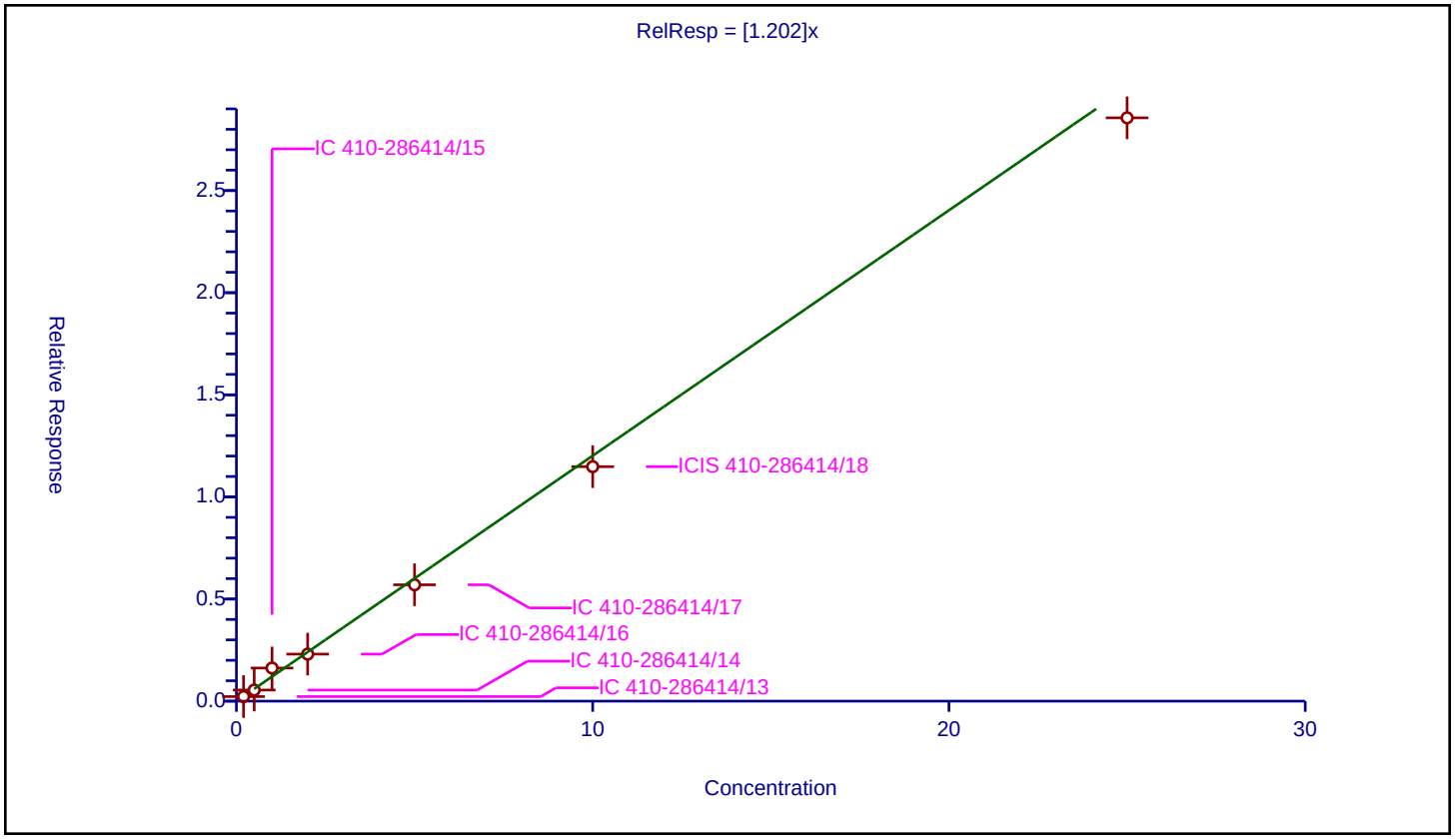
Curve Coefficients

Intercept:	0
Slope:	1.202

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	15.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.224152	10.0	1033318.0	1.120759	Y
2	IC 410-286414/14	0.5	0.544295	10.0	1047319.0	1.088589	Y
3	IC 410-286414/15	1.0	1.621538	10.0	1050836.0	1.621538	Y
4	IC 410-286414/16	2.0	2.302175	10.0	1056705.0	1.151088	Y
5	IC 410-286414/17	5.0	5.6974	10.0	1075545.0	1.13948	Y
6	ICIS 410-286414/18	10.0	11.481078	10.0	1096296.0	1.148108	Y
7	IC 410-286414/19	25.0	28.562325	10.0	1138282.0	1.142493	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

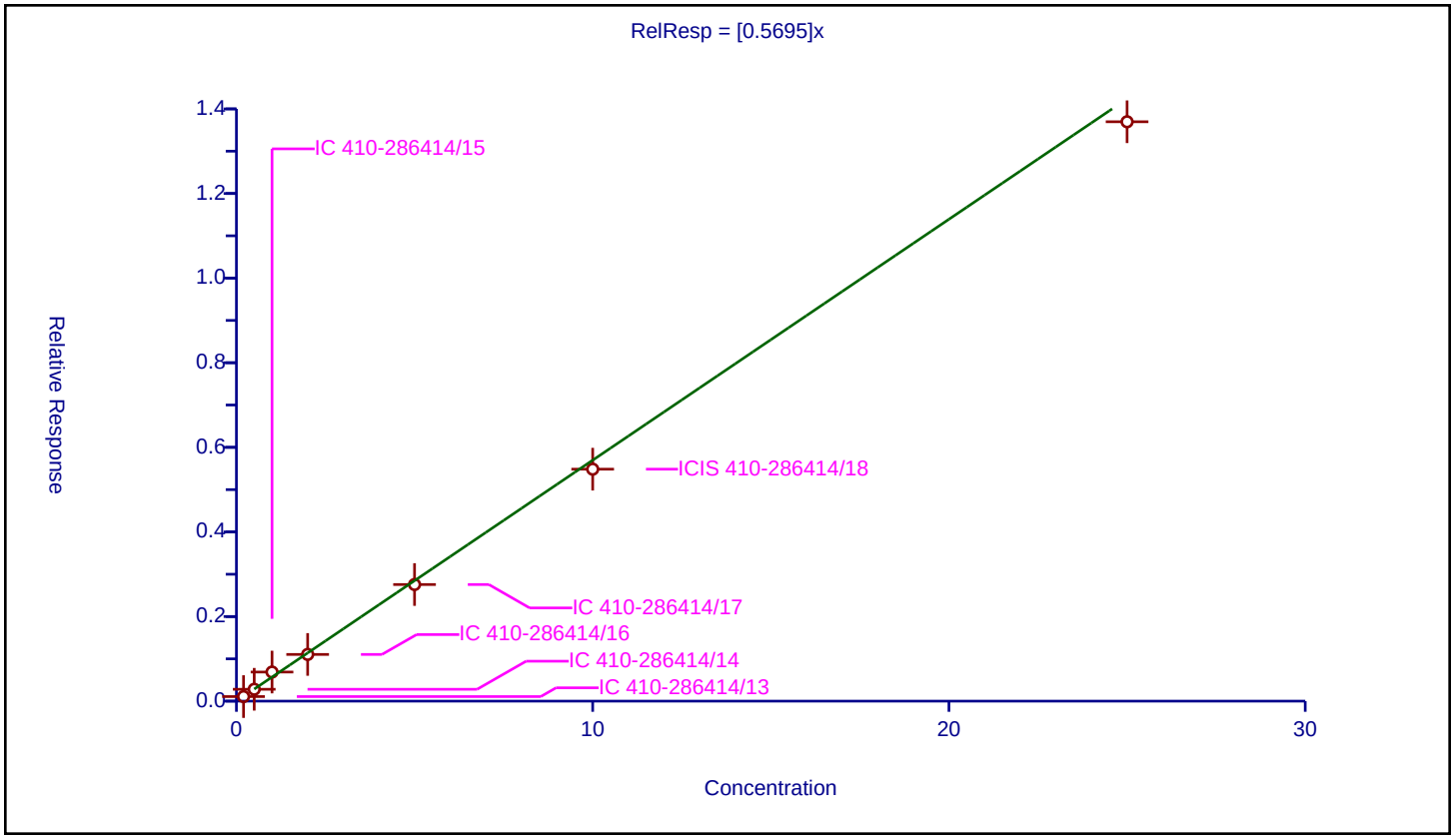
Curve Coefficients

Intercept:	0
Slope:	0.5695

Error Coefficients

Standard Error:	695000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.107682	10.0	1033318.0	0.538411	Y
2	IC 410-286414/14	0.5	0.280488	10.0	1047319.0	0.560975	Y
3	IC 410-286414/15	1.0	0.687757	10.0	1050836.0	0.687757	Y
4	IC 410-286414/16	2.0	1.104301	10.0	1056705.0	0.55215	Y
5	IC 410-286414/17	5.0	2.756621	10.0	1075545.0	0.551324	Y
6	ICIS 410-286414/18	10.0	5.483756	10.0	1096296.0	0.548376	Y
7	IC 410-286414/19	25.0	13.695833	10.0	1138282.0	0.547833	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

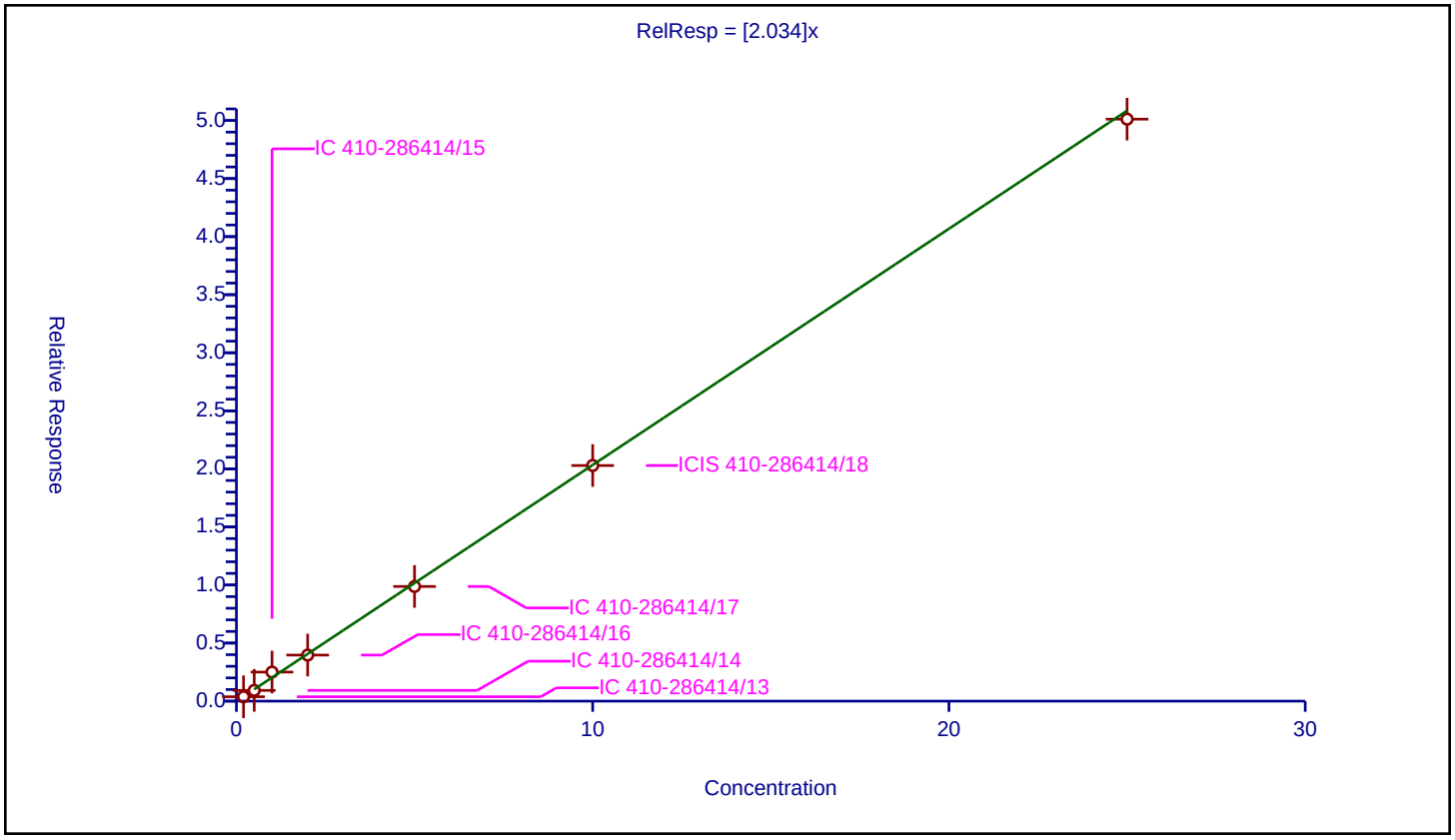
Curve Coefficients

Intercept:	0
Slope:	2.034

Error Coefficients

Standard Error:	2550000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.378025	10.0	1033318.0	1.890125	Y
2	IC 410-286414/14	0.5	0.926213	10.0	1047319.0	1.852425	Y
3	IC 410-286414/15	1.0	2.502341	10.0	1050836.0	2.502341	Y
4	IC 410-286414/16	2.0	3.966197	10.0	1056705.0	1.983098	Y
5	IC 410-286414/17	5.0	9.875133	10.0	1075545.0	1.975027	Y
6	ICIS 410-286414/18	10.0	20.290369	10.0	1096296.0	2.029037	Y
7	IC 410-286414/19	25.0	50.1165	10.0	1138282.0	2.00466	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

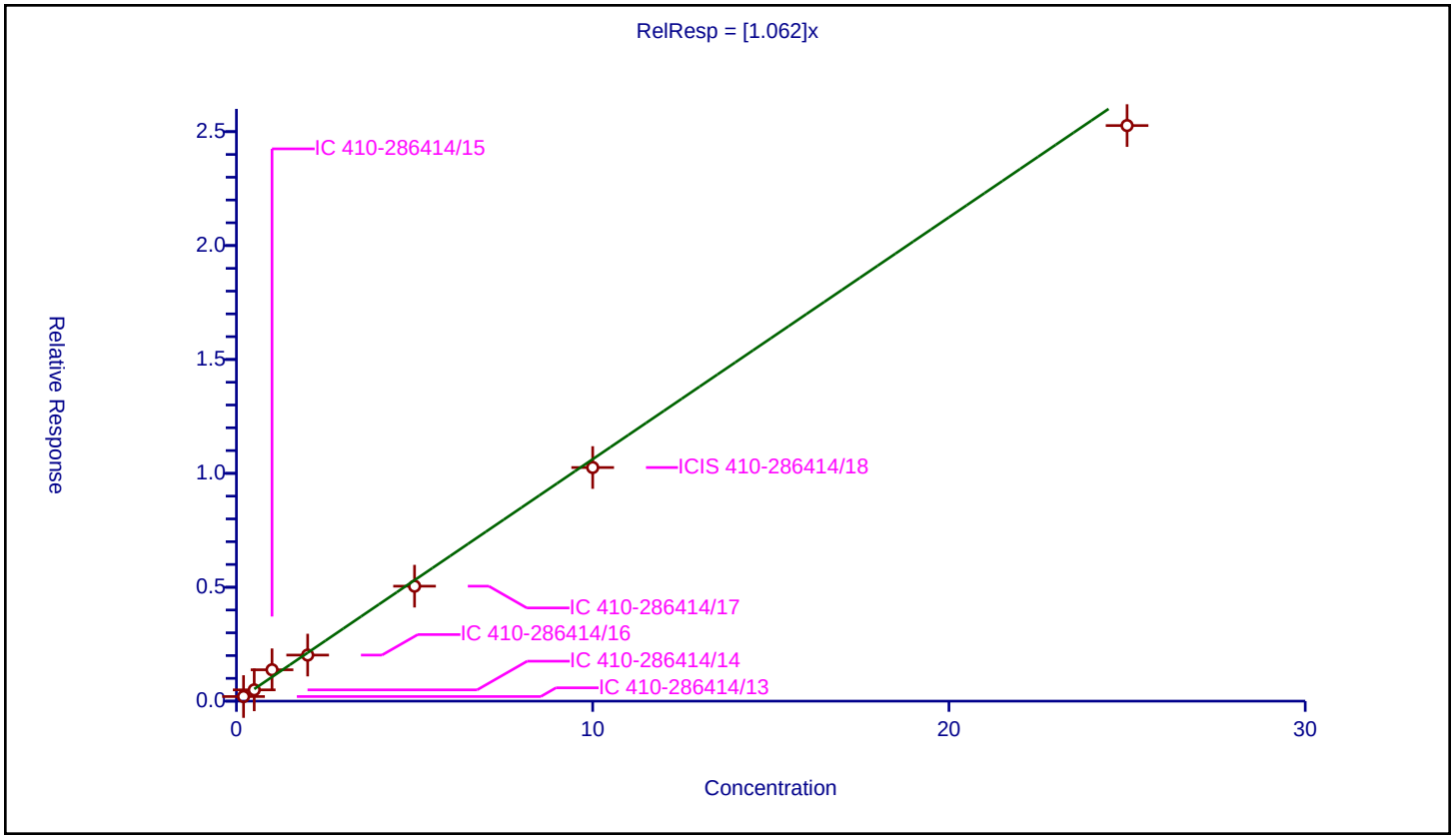
Curve Coefficients

Intercept:	0
Slope:	1.062

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	13.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.201961	10.0	1033318.0	1.009805	Y
2	IC 410-286414/14	0.5	0.495513	10.0	1047319.0	0.991026	Y
3	IC 410-286414/15	1.0	1.376637	10.0	1050836.0	1.376637	Y
4	IC 410-286414/16	2.0	2.022144	10.0	1056705.0	1.011072	Y
5	IC 410-286414/17	5.0	5.047515	10.0	1075545.0	1.009503	Y
6	ICIS 410-286414/18	10.0	10.255971	10.0	1096296.0	1.025597	Y
7	IC 410-286414/19	25.0	25.267956	10.0	1138282.0	1.010718	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-274212/18	IL11X18.D
Level 2	IC 410-274212/17	IL11X17.D
Level 3	IC 410-274212/16	IL11X16.D
Level 4	IC 410-274212/15	IL11X15.D
Level 5	IC 410-274212/14	IL11X14.D
Level 6	ICIS 410-274212/13	IL11X13.D
Level 7	IC 410-274212/12	IL11X12.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2852 0.3289	0.2834 0.3187	0.2829	0.3329	0.3243	Ave		0.3080			0.1000	7.5		20.0			
Chloromethane	0.3775 0.3473	0.3364 0.3326	0.3292	0.3725	0.3531	Ave		0.3498			0.1000	5.5		20.0			
Vinyl chloride	0.3275 0.3640	0.3302 0.3337	0.3268	0.3741	0.3547	Ave		0.3444			0.1000	5.7		20.0			
1,3-Butadiene	0.4836 0.3617	0.4087 0.3282	0.3798	0.3885	0.3785	Ave		0.3898				12.4		20.0			
Bromomethane	0.2638 0.2410	0.2363 0.2312	0.2205	0.2523	0.2360	Ave		0.2402			0.1000	5.9		20.0			
Chloroethane	0.2026 0.2040	0.2039 0.1972	0.1912	0.2154	0.2032	Ave		0.2025			0.1000	3.7		20.0			
Dichlorofluoromethane	0.4858 0.4737	0.4644 0.4604	0.4323	0.4984	0.4705	Ave		0.4693			0.1000	4.4		20.0			
Trichlorofluoromethane	0.4163 0.4820	0.4299 0.4600	0.4329	0.5036	0.4572	Ave		0.4546			0.1000	6.8		20.0			
Ethyl ether	0.2149 0.2309	0.2072 0.2240	0.2012	0.2363	0.2214	Ave		0.2194				5.7		20.0			
Freon 123a	0.3437 0.3531	0.3313 0.3462	0.3234	0.3649	0.3488	Ave		0.3445				4.0		20.0			
Acrolein	2.1469 2.3999	2.3538 2.4326	2.1999	2.3307	2.4964	Ave		2.3372				5.3		20.0			
1,1-Dichloroethene	0.2423 0.2559	0.2623 0.2506	0.2543	0.2557	0.2535	Ave		0.2535			0.1000	2.4		20.0			
Acetone	2.5154 2.5912	3.1466 2.6756	2.8340	2.7721	2.7753	Ave		2.7586			0.1000	7.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Freon 113	0.2471 0.2614	0.2562 0.2546	0.2500	0.2636	0.2613	Ave		0.2563			0.1000	2.4		20.0			
Methyl iodide	0.4375 0.4506	0.4659 0.4453	0.4271	0.4508	0.4439	Ave		0.4459				2.7		20.0			
Carbon disulfide	0.6477 0.6310	0.6698 0.6175	0.6079	0.6419	0.6234	Ave		0.6342			0.1000	3.3		20.0			
Methyl acetate	8.0466 7.6492	8.7972 7.8624	8.6221	7.6653	8.1262	Ave		8.1098			0.1000	5.5		20.0			
Allyl chloride	0.3455 0.3839	0.3830 0.3792	0.3557	0.3707	0.3780	Ave		0.3709				4.0		20.0			
Methylene Chloride	0.2757 0.2801	0.2856 0.2736	0.2727	0.2785	0.2783	Ave		0.2778			0.1000	1.6		20.0			
t-Butyl alcohol	0.6661 0.8585	0.8672 0.9474	0.8929	0.8597	0.9257	Ave		0.8596				10.7		20.0			
Acrylonitrile	2.8986 4.0528	3.8878 4.2078	3.9793	3.8333	4.2028	Ave		3.8661				11.6		20.0			
Methyl tert-butyl ether	0.5595 0.6779	0.6379 0.6626	0.6041	0.6518	0.6625	Ave		0.6366			0.1000	6.5		20.0			
trans-1,2-Dichloroethene	0.2781 0.2853	0.2887 0.2831	0.2719	0.2829	0.2785	Ave		0.2812			0.1000	2.0		20.0			
n-Hexane	0.3485 0.4252	0.3801 0.4169	0.3659	0.4030	0.4122	Ave		0.3931				7.3		20.0			
1,1-Dichloroethane	0.4958 0.5279	0.5297 0.5157	0.4967	0.5248	0.5176	Ave		0.5155			0.2000	2.7		20.0			
di-Isopropyl ether	0.7040 0.8460	0.7887 0.8281	0.7448	0.8114	0.8275	Ave		0.7929				6.5		20.0			
2-Chloro-1,3-butadiene	0.3249 0.4033	0.3616 0.4067	0.3553	0.3900	0.3982	Ave		0.3771				8.1		20.0			
Ethyl t-butyl ether	0.6321 0.7866	0.7238 0.7751	0.6972	0.7596	0.7700	Ave		0.7349				7.5		20.0			
2-Butanone (MEK)	4.1602 5.2896	5.0950 5.5522	5.0872	5.1797	5.4949	Ave		5.1227			0.1000	9.0		20.0			
cis-1,2-Dichloroethene	0.3022 0.3212	0.3264 0.3175	0.2996	0.3192	0.3170	Ave		0.3147			0.1000	3.2		20.0			
2,2-Dichloropropane	0.3978 0.4227	0.4328 0.4201	0.4023	0.4282	0.4220	Ave		0.4180				3.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Propionitrile	1.1550 1.5597	1.5218 1.5726	1.4684	1.4928	1.6282	Ave		1.4855				10.4		20.0			
Methacrylonitrile	4.3556 5.5133	5.1187 5.8628	5.2789	5.3583	5.9199	Ave		5.3439				9.8		20.0			
Bromochloromethane	0.1347 0.1441	0.1488 0.1432	0.1391	0.1459	0.1429	Ave		0.1427				3.2		20.0			
Tetrahydrofuran	1.0349 1.5745	1.4251 1.6806	1.4486	1.5319	1.6652	Ave		1.4801				14.8		20.0			
Chloroform	0.4991 0.5202	0.5476 0.5163	0.5023	0.5194	0.5139	Ave		0.5170			0.2000	3.1		20.0			
1,1,1-Trichloroethane	0.4508 0.4653	0.4751 0.4676	0.4450	0.4701	0.4653	Ave		0.4627			0.1000	2.3		20.0			
Cyclohexane	0.3943 0.4982	0.4490 0.4978	0.4418	0.4744	0.4890	Ave		0.4635			0.1000	8.2		20.0			
Carbon tetrachloride	0.3852 0.4216	0.4232 0.4249	0.3969	0.4199	0.4219	Ave		0.4134			0.1000	3.8		20.0			
1,1-Dichloropropene	0.3611 0.4198	0.4058 0.4195	0.3852	0.4132	0.4113	Ave		0.4023				5.4		20.0			
Isobutyl alcohol	0.2056 0.3522	0.3683 0.3736	0.3488	0.3612	0.3490	Ave		0.3370				17.4		20.0			
Benzene	1.1497 1.2291	1.2508 1.2245	1.1721	1.2396	1.2107	Ave		1.2109			0.5000	3.0		20.0			
1,2-Dichloroethane	0.3226 0.3198	0.3365 0.3208	0.3103	0.3285	0.3215	Ave		0.3229			0.1000	2.5		20.0			
t-Amyl methyl ether	0.5937 0.7535	0.6781 0.7472	0.6552	0.7197	0.7350	Ave		0.6975				8.4		20.0			
n-Heptane	0.4196 0.4441	0.4427 0.4403	0.4232	0.4298	0.4321	Ave		0.4331				2.2		20.0			
n-Butanol	+++++ 0.3514	0.2400 0.3728	0.2571	0.2987	0.3370	Ave		0.3095				17.2		20.0			
Trichloroethene	0.3084 0.3291	0.3271 0.3305	0.3066	0.3283	0.3261	Ave		0.3223			0.2000	3.2		20.0			
Methylcyclohexane	0.4628 0.5722	0.5009 0.5713	0.5046	0.5467	0.5613	Ave		0.5314			0.1000	8.0		20.0			
1,2-Dichloropropane	0.2809 0.3229	0.3259 0.3223	0.3024	0.3153	0.3189	Ave		0.3127			0.1000	5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl methacrylate	+++++ 10.781	7.5262 11.853	8.3423	8.6379	10.571	Ave		9.6185				17.5		20.0			
1,4-Dioxane	+++++ 0.0784	0.0552 0.0753	0.0484	0.0798	0.0749	Ave		0.0687			0.0050	19.5		20.0			
Dibromomethane	0.1341 0.1541	0.1551 0.1553	0.1448	0.1521	0.1528	Ave		0.1498				5.2		20.0			
Bromodichloromethane	0.3469 0.3829	0.3808 0.3875	0.3522	0.3700	0.3757	Ave		0.3709			0.2000	4.2		20.0			
2-Nitropropane	2.5574 2.8764	2.8672 3.1086	2.7698	2.7219	2.9732	Ave		2.8392				6.3		20.0			
cis-1,3-Dichloropropene	0.3797 0.4858	0.4184 0.4951	0.4147	0.4478	0.4688	Ave		0.4443			0.2000	9.5		20.0			
4-Methyl-2-pentanone (MIBK)	8.6036 13.532	11.501 14.217	11.977	12.675	14.159	Ave		12.381			0.1000	15.9		20.0			
Toluene	0.9764 1.0350	1.0590 1.0230	1.0056	1.0511	1.0284	Ave		1.0255			0.4000	2.7		20.0			
trans-1,3-Dichloropropene	0.3966 0.5124	0.4417 0.5200	0.4408	0.4682	0.4958	Ave		0.4679			0.1000	9.5		20.0			
Ethyl methacrylate	+++++ 0.4043	0.2908 0.4184	0.2851	0.3430	0.3806	Ave		0.3537				16.1		20.0			
1,1,2-Trichloroethane	0.2722 0.2944	0.2915 0.2949	0.2808	0.2939	0.2957	Ave		0.2891			0.1000	3.1		20.0			
Tetrachloroethene	0.4574 0.4970	0.5040 0.4980	0.4678	0.5066	0.4963	Ave		0.4896			0.2000	3.9		20.0			
1,3-Dichloropropane	0.4489 0.4985	0.4862 0.4958	0.4618	0.4969	0.4968	Ave		0.4836				4.1		20.0			
2-Hexanone	+++++ 9.6845	7.0953 10.498	7.8604	8.7191	9.9054	Ave		8.9604			0.1000	14.6		20.0			
Dibromochloromethane	0.3082 0.3759	0.3519 0.3842	0.3307	0.3674	0.3688	Ave		0.3553				7.6		20.0			
1,2-Dibromoethane (EDB)	0.2209 0.2834	0.2767 0.2870	0.2519	0.2735	0.2796	Ave		0.2676			0.1000	8.8		20.0			
1-Chlorohexane	0.5470 0.6004	0.5682 0.6013	0.5298	0.5812	0.5916	Ave		0.5742				4.8		20.0			
Chlorobenzene	1.0837 1.1597	1.1917 1.1576	1.1054	1.1914	1.1636	Ave		1.1504			0.5000	3.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1,2-Tetrachloroethane	0.3653 0.4018	0.4021 0.4029	0.3735	0.4047	0.4019	Ave		0.3931				4.2		20.0			
Ethylbenzene	1.7104 2.0072	1.8868 1.9855	1.7981	1.9821	1.9999	Ave		1.9100			0.1000	6.1		20.0			
m&p-Xylene	0.6177 0.7930	0.7127 0.7875	0.7132	0.7859	0.7881	Ave		0.7426			0.1000	8.8		20.0			
o-Xylene	0.5742 0.7656	0.6924 0.7686	0.6719	0.7322	0.7520	Ave		0.7081			0.3000	9.8		20.0			
Styrene	0.8294 1.2723	1.0235 1.2807	1.0243	1.1764	1.2352	Ave		1.1203			0.3000	15.0		20.0			
Bromoform	0.1779 0.2317	0.2038 0.2382	0.1950	0.2153	0.2240	Ave		0.2123			0.1000	10.1		20.0			
Isopropylbenzene	1.5022 2.0033	1.7678 1.9441	1.7451	1.9296	1.9839	Ave		1.8394			0.1000	9.8		20.0			
1,1,2,2-Tetrachloroethane	0.5822 0.6633	0.6474 0.6732	0.6276	0.6624	0.6498	Ave		0.6437			0.3000	4.8		20.0			
Bromobenzene	0.7827 0.8481	0.8317 0.8544	0.7997	0.8479	0.8427	Ave		0.8296				3.3		20.0			
trans-1,4-Dichloro-2-butene	+++++ 4.7491	3.5528 5.1237	3.7352	4.3383	4.7946	Ave		4.3823				14.3		20.0			
1,2,3-Trichloropropane	0.1431 0.1781	0.1761 0.1782	0.1610	0.1791	0.1744	Ave		0.1700				7.9		20.0			
N-Propylbenzene	3.3439 4.2501	3.8588 4.0921	3.8442	4.2245	4.2157	Ave		3.9756				8.2		20.0			
2-Chlorotoluene	0.7344 0.8483	0.8163 0.8502	0.7970	0.8471	0.8457	Ave		0.8199				5.2		20.0			
1,3,5-Trimethylbenzene	2.3036 2.9783	2.7359 2.9505	2.6333	2.9317	2.9367	Ave		2.7814				8.9		20.0			
4-Chlorotoluene	0.7413 0.8763	0.8334 0.8777	0.8128	0.8538	0.8609	Ave		0.8366				5.7		20.0			
tert-Butylbenzene	0.4848 0.6760	0.6103 0.6654	0.5979	0.6595	0.6643	Ave		0.6226				10.9		20.0			
Pentachloroethane	0.4448 0.5434	0.4523 0.5427	0.4645	0.5532	0.5279	Ave		0.5041				9.5		20.0			
1,2,4-Trimethylbenzene	2.1004 3.0372	2.6373 2.9961	2.6288	2.9546	2.9909	Ave		2.7636				12.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	2.9844 3.8483	3.5465 3.7195	3.4680	3.7869	3.8116	Ave		3.5950				8.5		20.0			
1,3-Dichlorobenzene	1.4048 1.6859	1.6232 1.6740	1.5334	1.6638	1.6373	Ave		1.6032			0.6000	6.3		20.0			
p-Isopropyltoluene	2.3934 3.3073	2.8536 3.2500	2.8604	3.2405	3.2939	Ave		3.0285				11.3		20.0			
1,4-Dichlorobenzene	1.4902 1.6929	1.7258 1.6806	1.6163	1.7157	1.6693	Ave		1.6558			0.5000	4.9		20.0			
1,2,3-Trimethylbenzene	1.1820 1.3049	1.3249 1.2952	1.2174	1.2981	1.2952	Ave		1.2740				4.1		20.0			
Benzyl chloride	+++++ 0.2719	0.1998 0.2845	0.2059	0.2302	0.2573	Ave		0.2416				14.5		20.0			
n-Butylbenzene	0.9575 1.6047	1.4565 1.6021	1.3614	1.5493	1.5785	Ave		1.4443				16.1		20.0			
1,2-Dichlorobenzene	1.3166 1.5323	1.5655 1.5112	1.4371	1.5586	1.5080	Ave		1.4899			0.4000	5.9		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0980	0.0798 0.1052	0.0849	0.0909	0.0923	Ave		0.0918			0.0500	9.9		20.0			
1,3,5-Trichlorobenzene	0.9958 1.1448	1.0561 1.2016	1.0141	1.1069	1.1321	Ave		1.0931				6.8		20.0			
1,2,4-Trichlorobenzene	0.7171 0.9706	0.7742 1.0362	0.8266	0.9075	0.9344	Ave		0.8809			0.2000	12.8		20.0			
Hexachlorobutadiene	0.4671 0.4076	0.4171 0.4278	0.3861	0.4120	0.3957	Ave		0.4162				6.3		20.0			
Naphthalene	1.1413 1.9073	1.4729 2.0025	1.4054	1.6727	1.7784	Ave		1.6258				18.7		20.0			
1,2,3-Trichlorobenzene	0.6562 0.8376	0.7412 0.8654	0.7284	0.8276	0.8131	Ave		0.7814				9.6		20.0			
Dibromofluoromethane (Surr)	0.2552 0.2485	0.2546 0.2488	0.2532	0.2499	0.2472	Ave		0.2511				1.3		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0524 0.0526	0.0519 0.0513	0.0509	0.0512	0.0506	Ave		0.0516				1.4		20.0			
Toluene-d8 (Surr)	1.2979 1.2860	1.3003 1.2724	1.3104	1.3118	1.3052	Ave		1.2977				1.1		20.0			
4-Bromofluorobenzene (Surr)	0.4671 0.4776	0.4711 0.4705	0.4762	0.4840	0.4843	Ave		0.4758				1.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-274212/18	IL11X18.D
Level 2	IC 410-274212/17	IL11X17.D
Level 3	IC 410-274212/16	IL11X16.D
Level 4	IC 410-274212/15	IL11X15.D
Level 5	IC 410-274212/14	IL11X14.D
Level 6	ICIS 410-274212/13	IL11X13.D
Level 7	IC 410-274212/12	IL11X12.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	12721 775307	31575 1864869	65034	155928	384616	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	16839 818721	37473 1946545	75677	174469	418793	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	14610 858174	36782 1952915	75123	175211	420647	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	21573 852580	45528 1920419	87308	181981	448852	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	11770 568259	26319 1352968	50700	118171	279824	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	9040 480979	22719 1154084	43956	100916	240962	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	21670 1116663	51734 2694298	99392	233451	557952	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	18571 1136388	47896 2692119	99512	235907	542164	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	9589 544583	23094 1311113	46274	110740	262623	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	15332 832332	36911 2026195	74340	170916	413603	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	69223 4074711	184648 9697358	342456	781875	1960560	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	10808 603331	29217 1466843	58456	119792	300676	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	16221	49368	88233	185987	435913	2.00	5.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			879889	2133164				100	250			
Freon 113	FB	Ave	11022 616352	28541 1490023	57473	123477	309872	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	19517 1062359	51899 2606048	98192	211139	526457	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	28892 1487556	74621 3613722	139748	300692	739332	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Ave	5189 259744	13802 626851	26844	51429	127638	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	15414 904995	42661 2219101	81784	173644	448302	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	12300 660302	31812 1601446	62695	130455	330037	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	8591 583038	27212 1510619	55599	115361	290794	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	4673 344055	15249 838694	30973	64297	165033	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	24960 1598073	71057 3877674	138867	305329	785616	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	12404 672553	32165 1656694	62500	132511	330337	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	15545 1002426	42348 2439948	84124	188753	488870	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	22119 1244444	59012 3017807	114187	245824	613887	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	31407 1994286	87856 4846235	171221	380072	981336	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	14493 950721	40279 2379938	81681	182677	472184	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	28198 1854452	80632 4535995	160279	355813	913149	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd 10	Ave	26828	79936	158385	347526	863076	2.00	5.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1796186	4426640				100	250			
cis-1,2-Dichloroethene	FB	Ave	13480 757315	36356 1858079	68884	149512	375882	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	17747 996580	48210 2458322	92476	200572	500444	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	14896 1059256	47750 2507572	91432	200315	511477	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	28088 1872168	80308 4674235	164353	359507	929830	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	6009 339759	16573 838017	31972	68358	169421	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	3337 267322	11179 669958	22551	51391	130774	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	22266 1226420	61005 3021737	115466	243271	609419	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	20111 1097039	52923 2736334	102310	220204	551762	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	17589 1174401	50021 2913184	101574	222228	579878	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	17184 994011	47141 2486426	91238	196686	500314	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	16108 989672	45209 2454982	88566	193566	487745	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	6630 598022	28893 1489417	54305	121187	274118	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	51289 2897543	139335 7166100	269454	580651	1435836	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	14390 753838	37483 1877427	71341	153866	381309	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	26483 1776420	75544 4372902	150623	337103	871660	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	18720	49321	97288	201314	512397	0.200	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1047041	2576950				10.0	25.0			
n-Butanol	TBAd 10	Ave	+++++ 1044145	32950 2600805	70052	175348	463205	+++++ 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	13757 775746	36438 1934187	70491	153756	386689	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	20647 1348970	55796 3343294	115995	256079	665622	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	12531 761249	36304 1886215	69528	147680	378228	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	+++++ 366085	11808 945002	25973	57955	166034	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Ave	+++++ 133078	4327 300268	7533	26767	58794	+++++ 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	5984 363345	17273 908999	33297	71241	181173	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	15476 902646	42424 2267464	80968	173299	445583	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	8246 488367	22492 1239188	43118	91311	233496	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	16936 1145232	46615 2897356	95346	209732	555968	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd 10	Ave	55482 4595155	180443 11334724	372880	850428	2223914	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	33710 1933919	92090 4792712	180800	382193	952092	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	13694 957404	38412 2436145	79245	170253	459025	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	+++++	25289	51259	124735	352387	+++++	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			755370	1959915				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	9398 550000	25354 1381721	50479	106873	273779	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	15791 928649	43830 2332956	84114	184199	459498	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	15498 931507	42281 2322857	83021	180675	459902	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	+++++ 3288574	111319 8369640	244726	584996	1555827	+++++ 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	10640 702452	30599 1799772	59451	133590	341396	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	7628 529520	24059 1344383	45285	99455	258812	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	18884 1121836	49415 2817051	95246	211339	547727	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	37416 2166788	103635 5423284	198736	433225	1077231	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	12612 750673	34965 1887305	67159	147143	372032	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	59052 3750337	164082 9301463	323292	720722	1851439	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	42651 2963343	123961 7378713	256474	571561	1459288	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	19824	60212	120803	266251	696205	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1430458	3600919				10.0	25.0			
Styrene	CBZd 5	Ave	28634 2377193	89009 5999610	184166	427773	1143544	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	6141 432992	17723 1116100	35053	78295	207414	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	51863 3743170	153734 9107669	313759	701622	1836655	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	11207 698496	31520 1728934	63270	135802	341267	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	15066 893054	40498 2194407	80617	173833	442560	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	+++++ 1612670	55740 4084999	116292	291069	753084	+++++ 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2754 187503	8575 457576	16230	36714	91564	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	64364 4475549	187884 10510108	387529	866089	2213899	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	14136 893270	39747 2183713	80346	173676	444100	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	44340 3136239	133210 7578027	265461	601055	1542218	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	14269 922726	40578 2254199	81938	175042	452113	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	9331	29717	60273	135208	348862	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			711868	1709007				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	8561 572219	22024 1393932	46827	113412	277235	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	40429 3198326	128411 7695100	265002	605752	1570696	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	57444 4052430	172681 9553196	349604	776377	2001677	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	27040 1775352	79032 4299389	154584	341099	859840	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	46069 3482656	138944 8347352	288357	664352	1729810	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	28684 1782714	84028 4316488	162933	351752	876650	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	22752 1374135	64512 3326481	122728	266135	680186	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	+++++ 286316	9730 730613	20752	47192	135138	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	18430 1689776	70919 4114834	137242	317643	828929	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	25342 1613569	76227 3881335	144871	319534	791941	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 103174	3887 270174	8558	18632	48476	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	19168	51424	102232	226924	594545	0.200	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1205511	3086150				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	13803 1022023	37697 2661316	83328	186055	490690	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	8991 429212	20308 1098859	38921	84467	207781	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	21967 2008500	71718 5143208	141675	342941	933937	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	12630 882018	36090 2222787	73426	169677	427022	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	569168 585924	567219 582432	582148	585192	586295	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	116789 123948	115685 120168	117116	120029	119950	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2240421 2402818	2261581 2384335	2356053	2384964	2416659	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	806346 892382	819340 881757	856156	879986	896770	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-274212/18	IL11X18.D
Level 2	IC 410-274212/17	IL11X17.D
Level 3	IC 410-274212/16	IL11X16.D
Level 4	IC 410-274212/15	IL11X15.D
Level 5	IC 410-274212/14	IL11X14.D
Level 6	ICIS 410-274212/13	IL11X13.D
Level 7	IC 410-274212/12	IL11X12.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-7.4 3.4	-8.0	-8.2	8.1	5.3	6.8	50 30	30	30	30	30	30
Chloromethane	7.9 -4.9	-3.8	-5.9	6.5	1.0	-0.7	50 30	30	30	30	30	30
Vinyl chloride	-4.9 -3.1	-4.1	-5.1	8.6	3.0	5.7	50 30	30	30	30	30	30
1,3-Butadiene	24.1 -15.8	4.8	-2.6	-0.3	-2.9	-7.2	50 30	30	30	30	30	30
Bromomethane	9.9 -3.7	-1.6	-8.2	5.0	-1.8	0.4	50 30	30	30	30	30	30
Chloroethane	0.1 -2.6	0.7	-5.6	6.4	0.3	0.7	50 30	30	30	30	30	30
Dichlorofluoromethane	3.5 -1.9	-1.1	-7.9	6.2	0.2	0.9	50 30	30	30	30	30	30
Trichlorofluoromethane	-8.4 1.2	-5.4	-4.8	10.8	0.6	6.0	50 30	30	30	30	30	30
Ethyl ether	-2.1 2.1	-5.6	-8.3	7.7	0.9	5.2	50 30	30	30	30	30	30
Freon 123a	-0.2 0.5	-3.8	-6.1	5.9	1.2	2.5	50 30	30	30	30	30	30
Acrolein	-8.1 4.1	0.7	-5.9	-0.3	6.8	2.7	50 30	30	30	30	30	30
1,1-Dichloroethene	-4.4 -1.1	3.4	0.3	0.9	0.0	0.9	50 30	30	30	30	30	30
Acetone	-8.8 -3.0	14.1	2.7	0.5	0.6	-6.1	50 30	30	30	30	30	30
Freon 113	-3.6 -0.7	0.0	-2.5	2.8	1.9	2.0	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl iodide	-1.9 -0.1	4.5	-4.2	1.1	-0.4	1.1	50 30	30	30	30	30	30
Carbon disulfide	2.1 -2.6	5.6	-4.1	1.2	-1.7	-0.5	50 30	30	30	30	30	30
Methyl acetate	-0.8 -3.1	8.5	6.3	-5.5	0.2	-5.7	50 30	30	30	30	30	30
Allyl chloride	-6.8 2.2	3.3	-4.1	0.0	1.9	3.5	50 30	30	30	30	30	30
Methylene Chloride	-0.7 -1.5	2.8	-1.8	0.3	0.2	0.8	50 30	30	30	30	30	30
t-Butyl alcohol	-22.5 10.2	0.9	3.9	0.0	7.7	-0.1	50 30	30	30	30	30	30
Acrylonitrile	-25.0 8.8	0.6	2.9	-0.8	8.7	4.8	50 30	30	30	30	30	30
Methyl tert-butyl ether	-12.1 4.1	0.2	-5.1	2.4	4.1	6.5	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-1.1 0.7	2.7	-3.3	0.6	-0.9	1.4	50 30	30	30	30	30	30
n-Hexane	-11.4 6.1	-3.3	-6.9	2.5	4.9	8.2	50 30	30	30	30	30	30
1,1-Dichloroethane	-3.8 0.0	2.8	-3.6	1.8	0.4	2.4	50 30	30	30	30	30	30
di-Isopropyl ether	-11.2 4.4	-0.5	-6.1	2.3	4.4	6.7	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-13.9 7.8	-4.1	-5.8	3.4	5.6	6.9	50 30	30	30	30	30	30
Ethyl t-butyl ether	-14.0 5.5	-1.5	-5.1	3.4	4.8	7.0	50 30	30	30	30	30	30
2-Butanone (MEK)	-18.8 8.4	-0.5	-0.7	1.1	7.3	3.3	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-4.0 0.9	3.7	-4.8	1.4	0.7	2.1	50 30	30	30	30	30	30
2,2-Dichloropropane	-4.8 0.5	3.5	-3.8	2.4	1.0	1.1	50 30	30	30	30	30	30
Propionitrile	-22.3 5.9	2.4	-1.2	0.5	9.6	5.0	50 30	30	30	30	30	30
Methacrylonitrile	-18.5 9.7	-4.2	-1.2	0.3	10.8	3.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Bromochloromethane	-5.6 0.4	4.3	-2.5	2.3	0.1	1.0	50 30	30	30	30	30	30
Tetrahydrofuran	-30.1 13.5	-3.7	-2.1	3.5	12.5	6.4	50 30	30	30	30	30	30
Chloroform	-3.5 -0.1	5.9	-2.8	0.5	-0.6	0.6	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-2.6 1.0	2.7	-3.8	1.6	0.5	0.6	50 30	30	30	30	30	30
Cyclohexane	-14.9 7.4	-3.1	-4.7	2.4	5.5	7.5	50 30	30	30	30	30	30
Carbon tetrachloride	-6.8 2.8	2.4	-4.0	1.6	2.1	2.0	50 30	30	30	30	30	30
1,1-Dichloropropene	-10.2 4.3	0.9	-4.2	2.7	2.2	4.4	50 30	30	30	30	30	30
Isobutyl alcohol	-39.0 10.9	9.3	3.5	7.2	3.6	4.5	50 30	30	30	30	30	30
Benzene	-5.1 1.1	3.3	-3.2	2.4	0.0	1.5	50 30	30	30	30	30	30
1,2-Dichloroethane	-0.1 -0.6	4.2	-3.9	1.7	-0.4	-1.0	50 30	30	30	30	30	30
t-Amyl methyl ether	-14.9 7.1	-2.8	-6.1	3.2	5.4	8.0	50 30	30	30	30	30	30
n-Heptane	-3.1 1.7	2.2	-2.3	-0.8	-0.2	2.5	50 30	30	30	30	30	30
n-Butanol	+++++ 20.4	-22.5	-16.9	-3.5	8.9	13.5	 30	50	30	30	30	30
Trichloroethene	-4.3 2.6	1.5	-4.9	1.9	1.2	2.1	50 30	30	30	30	30	30
Methylcyclohexane	-12.9 7.5	-5.7	-5.0	2.9	5.6	7.7	50 30	30	30	30	30	30
1,2-Dichloropropane	-10.2 3.1	4.2	-3.3	0.8	2.0	3.3	50 30	30	30	30	30	30
Methyl methacrylate	+++++ 23.2	-21.8	-13.3	-10.2	9.9	12.1	 30	50	30	30	30	30
1,4-Dioxane	+++++ 9.7	-19.7	-29.5	16.2	9.0	14.2	 30	50	30	30	30	30
Dibromomethane	-10.4 3.7	3.5	-3.3	1.6	2.0	2.9	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Bromodichloromethane	-6.5 4.5	2.7	-5.0	-0.2	1.3	3.2	50 30	30	30	30	30	30
2-Nitropropane	-9.9 9.5	1.0	-2.4	-4.1	4.7	1.3	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-14.6 11.4	-5.8	-6.7	0.8	5.5	9.3	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-30.5 14.8	-7.1	-3.3	2.4	14.4	9.3	50 30	30	30	30	30	30
Toluene	-4.8 -0.2	3.3	-1.9	2.5	0.3	0.9	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-15.2 11.1	-5.6	-5.8	0.1	6.0	9.5	50 30	30	30	30	30	30
Ethyl methacrylate	+++++ 18.3	-17.8	-19.4	-3.0	7.6	14.3	 30	50	30	30	30	30
1,1,2-Trichloroethane	-5.8 2.0	0.9	-2.9	1.7	2.3	1.8	50 30	30	30	30	30	30
Tetrachloroethene	-6.6 1.7	2.9	-4.4	3.5	1.4	1.5	50 30	30	30	30	30	30
1,3-Dichloropropane	-7.2 2.5	0.5	-4.5	2.8	2.7	3.1	50 30	30	30	30	30	30
2-Hexanone	+++++ 17.2	-20.8	-12.3	-2.7	10.5	8.1	 30	50	30	30	30	30
Dibromochloromethane	-13.3 8.1	-1.0	-6.9	3.4	3.8	5.8	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-17.4 7.3	3.4	-5.9	2.2	4.5	5.9	50 30	30	30	30	30	30
1-Chlorohexane	-4.7 4.7	-1.0	-7.7	1.2	3.0	4.6	50 30	30	30	30	30	30
Chlorobenzene	-5.8 0.6	3.6	-3.9	3.6	1.1	0.8	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-7.1 2.5	2.3	-5.0	2.9	2.2	2.2	50 30	30	30	30	30	30
Ethylbenzene	-10.4 4.0	-1.2	-5.9	3.8	4.7	5.1	50 30	30	30	30	30	30
m&p-Xylene	-16.8 6.0	-4.0	-4.0	5.8	6.1	6.8	50 30	30	30	30	30	30
o-Xylene	-18.9 8.5	-2.2	-5.1	3.4	6.2	8.1	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Styrene	-26.0 14.3	-8.6	-8.6	5.0	10.3	13.6	50 30	30	30	30	30	30
Bromoform	-16.2 12.2	-4.0	-8.2	1.4	5.5	9.2	50 30	30	30	30	30	30
Isopropylbenzene	-18.3 5.7	-3.9	-5.1	4.9	7.9	8.9	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-9.5 4.6	0.6	-2.5	2.9	1.0	3.0	50 30	30	30	30	30	30
Bromobenzene	-5.7 3.0	0.3	-3.6	2.2	1.6	2.2	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	+++++ 16.9	-18.9	-14.8	-1.0	9.4	8.4	30	50	30	30	30	30
1,2,3-Trichloropropane	-15.8 4.8	3.6	-5.3	5.4	2.6	4.8	50 30	30	30	30	30	30
N-Propylbenzene	-15.9 2.9	-2.9	-3.3	6.3	6.0	6.9	50 30	30	30	30	30	30
2-Chlorotoluene	-10.4 3.7	-0.4	-2.8	3.3	3.1	3.5	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-17.2 6.1	-1.6	-5.3	5.4	5.6	7.1	50 30	30	30	30	30	30
4-Chlorotoluene	-11.4 4.9	-0.4	-2.8	2.1	2.9	4.7	50 30	30	30	30	30	30
tert-Butylbenzene	-22.1 6.9	-2.0	-4.0	5.9	6.7	8.6	50 30	30	30	30	30	30
Pentachloroethane	-11.8 7.7	-10.3	-7.9	9.7	4.7	7.8	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-24.0 8.4	-4.6	-4.9	6.9	8.2	9.9	50 30	30	30	30	30	30
sec-Butylbenzene	-17.0 3.5	-1.3	-3.5	5.3	6.0	7.0	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-12.4 4.4	1.2	-4.4	3.8	2.1	5.2	50 30	30	30	30	30	30
p-Isopropyltoluene	-21.0 7.3	-5.8	-5.5	7.0	8.8	9.2	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-10.0 1.5	4.2	-2.4	3.6	0.8	2.2	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-7.2 1.7	4.0	-4.4	1.9	1.7	2.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-95715-1 Analy Batch No.: 274212

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 15:36 Calibration End Date: 07/11/2022 17:43 Calibration ID: 40830

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Benzyl chloride	+++++ 17.7	-17.3	-14.8	-4.7	6.5	12.5	30	50	30	30	30	30
n-Butylbenzene	-33.7 10.9	0.8	-5.7	7.3	9.3	11.1	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-11.6 1.4	5.1	-3.5	4.6	1.2	2.8	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	+++++ 14.5	-13.1	-7.6	-1.1	0.5	6.7	30	50	30	30	30	30
1,3,5-Trichlorobenzene	-8.9 9.9	-3.4	-7.2	1.3	3.6	4.7	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-18.6 17.6	-12.1	-6.2	3.0	6.1	10.2	50 30	30	30	30	30	30
Hexachlorobutadiene	12.2 2.8	0.2	-7.2	-1.0	-4.9	-2.1	50 30	30	30	30	30	30
Naphthalene	-29.8 23.2	-9.4	-13.6	2.9	9.4	17.3	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-16.0 10.8	-5.1	-6.8	5.9	4.1	7.2	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	1.6 -0.9	1.4	0.9	-0.5	-1.5	-1.0	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.5 -0.4	0.7	-1.2	-0.6	-1.9	2.0	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.0 -2.0	0.2	1.0	1.1	0.6	-0.9	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.8 -1.1	-1.0	0.1	1.7	1.8	0.4	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X12.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Jul-2022 15:36:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0061506-012
Misc. Info.: IC STD7
Operator ID: kas02648 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 14-Jul-2022 14:51:11 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UKAD Date: 12-Jul-2022 12:32:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.959	1.965	-0.006	99	1864869	25.0	25.9	
4 Chloromethane	50	2.160	2.160	0.000	99	1946545	25.0	23.8	
5 Vinyl chloride	62	2.276	2.276	0.000	98	1952915	25.0	24.2	
6 Butadiene	39	2.288	2.288	0.000	90	1920419	25.0	21.0	
7 Bromomethane	94	2.611	2.617	-0.006	90	1352968	25.0	24.1	
8 Chloroethane	64	2.690	2.696	-0.006	100	1154084	25.0	24.3	
9 Dichlorofluoromethane	67	2.934	2.940	-0.006	97	2694298	25.0	24.5	
10 Trichlorofluoromethane	101	3.001	3.001	0.000	97	2692119	25.0	25.3	
11 Ethyl ether	59	3.239	3.245	-0.006	90	1311113	25.0	25.5	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.336	3.330	0.006	95	2026195	25.0	25.1	
13 Acrolein	56	3.410	3.416	-0.006	99	9697358	1250.0	1301.0	
14 1,1-Dichloroethene	96	3.550	3.556	-0.006	98	1466843	25.0	24.7	
15 Acetone	43	3.574	3.580	-0.006	100	2133164	250.0	242.5	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.599	3.599	-0.001	91	1490023	25.0	24.8	
17 Iodomethane	142	3.751	3.751	0.000	98	2606048	25.0	25.0	
18 Ethyl bromide	108	3.775	3.782	-0.007	98	1356924	25.0	25.3	
19 Carbon disulfide	76	3.855	3.861	-0.006	99	3613722	25.0	24.3	
21 Methyl acetate	43	4.001	4.007	-0.006	97	626851	25.0	24.2	M
22 3-Chloro-1-propene	41	4.025	4.032	-0.007	93	2219101	25.0	25.6	
23 Methylene Chloride	84	4.220	4.221	-0.001	91	1601446	25.0	24.6	
* 24 t-Butyl alcohol-d10 (IS)	65	4.251	4.233	0.018	0	159455	50.0	50.0	
25 2-Methyl-2-propanol	59	4.367	4.361	0.006	100	1510619	500.0	551.0	
26 Acrylonitrile	53	4.550	4.556	-0.006	100	838694	62.5	68.0	
27 Methyl tert-butyl ether	73	4.629	4.629	0.000	94	3877674	25.0	26.0	
28 trans-1,2-Dichloroethene	96	4.641	4.641	0.000	99	1656694	25.0	25.2	
29 Hexane	57	5.062	5.062	0.000	90	2439948	25.0	26.5	
31 1,1-Dichloroethane	63	5.293	5.294	-0.001	96	3017807	25.0	25.0	
32 Isopropyl ether	45	5.354	5.354	0.000	94	4846235	25.0	26.1	
33 2-Chloro-1,3-butadiene	53	5.403	5.409	-0.006	92	2379938	25.0	27.0	
34 Tert-butyl ethyl ether	59	5.885	5.891	-0.006	97	4535995	25.0	26.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.086	6.086	0.000	99	4426640	250.0	271.0	
37 cis-1,2-Dichloroethene	96	6.122	6.123	-0.001	81	1858079	25.0	25.2	
38 2,2-Dichloropropane	77	6.141	6.135	0.006	86	2458322	25.0	25.1	
S 35 1,2-Dichloroethene, Total	100				0			50.4	
40 Propionitrile	54	6.171	6.171	0.000	99	2507572	500.0	529.3	
42 Methacrylonitrile	67	6.391	6.391	0.000	90	4674235	250.0	274.3	
43 Chlorobromomethane	128	6.452	6.452	0.000	92	838017	25.0	25.1	
44 Tetrahydrofuran	71	6.470	6.464	0.006	81	669958	125.0	141.9	
45 Chloroform	83	6.604	6.604	0.000	93	3021737	25.0	25.0	
$ 46 Dibromofluoromethane (Surr)	113	6.811	6.818	-0.007	93	582432	10.0	9.91	
47 1,1,1-Trichloroethane	97	6.830	6.830	0.000	98	2736334	25.0	25.3	
48 Cyclohexane	56	6.933	6.933	0.000	89	2913184	25.0	26.8	
51 1,1-Dichloropropene	75	7.037	7.043	-0.006	97	2454982	25.0	26.1	
50 Carbon tetrachloride	117	7.043	7.043	0.000	83	2486426	25.0	25.7	
52 Isobutyl alcohol	41	7.183	7.183	0.000	95	1489417	1250.0	1385.9	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	0	120168	10.0	9.96	
54 Benzene	78	7.299	7.299	0.000	95	7166100	25.0	25.3	
56 1,2-Dichloroethane	62	7.372	7.372	0.000	97	1877427	25.0	24.8	
57 Tert-amyl methyl ether	73	7.488	7.488	0.000	99	4372902	25.0	26.8	
* 58 Fluorobenzene (IS)	96	7.701	7.702	-0.001	99	2340890	10.0	10.0	
59 n-Heptane	43	7.714	7.714	0.000	90	2576950	25.0	25.4	
60 n-Butanol	56	8.061	8.061	0.000	86	2600805	2187.5	2634.8	
61 Trichloroethene	95	8.183	8.183	0.000	97	1934187	25.0	25.6	
62 Methylcyclohexane	83	8.488	8.488	0.000	93	3343294	25.0	26.9	
63 1,2-Dichloropropane	63	8.506	8.512	-0.006	97	1886215	25.0	25.8	
64 Methyl methacrylate	69	8.591	8.592	-0.001	90	945002	25.0	30.8	
65 1,4-Dioxane	88	8.604	8.604	0.000	78	300268	1250.0	1371.5	
66 Dibromomethane	93	8.622	8.622	0.000	94	908999	25.0	25.9	
68 Dichlorobromomethane	83	8.854	8.854	0.000	100	2267464	25.0	26.1	
69 2-Nitropropane	41	9.116	9.116	0.000	97	1239188	125.0	136.9	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	98	1994065	25.0	26.7	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	97	2897356	25.0	27.9	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	11334724	250.0	287.1	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2384335	10.0	9.80	
76 Toluene	92	9.780	9.780	0.000	98	4792712	25.0	24.9	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	91	2436145	25.0	27.8	
S 77 1,3-Dichloropropene, Total	100				0			55.6	
79 Ethyl methacrylate	69	10.097	10.097	0.000	88	1959915	25.0	29.6	
80 1,1,2-Trichloroethane	97	10.237	10.238	-0.001	90	1381721	25.0	25.5	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	2332956	25.0	25.4	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	87	2322857	25.0	25.6	
83 2-Hexanone	43	10.451	10.451	0.000	95	8369640	250.0	292.9	
85 Chlorodibromomethane	129	10.615	10.616	-0.001	89	1799772	25.0	27.0	
86 Ethylene Dibromide	107	10.725	10.731	-0.006	98	1344383	25.0	26.8	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1873912	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	97	2817051	25.0	26.2	
90 Chlorobenzene	112	11.182	11.183	-0.001	96	5423284	25.0	25.2	
S 89 Xylenes, Total	106				0			80.2	
91 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	96	1887305	25.0	25.6	
92 Ethylbenzene	91	11.268	11.268	0.000	98	9301463	25.0	26.0	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	0	7378713	50.0	53.0	
94 o-Xylene	106	11.713	11.713	0.000	96	3600919	25.0	27.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.725	11.725	0.000	95	5999610	25.0	28.6	
96 Bromoform	173	11.883	11.884	-0.001	98	1116100	25.0	28.1	
97 Isopropylbenzene	105	12.011	12.012	-0.001	95	9107669	25.0	26.4	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	95	881757	10.0	9.89	
101 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	92	1728934	25.0	26.1	
102 Bromobenzene	156	12.274	12.274	0.000	96	2194407	25.0	25.7	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	91	4084999	250.0	292.3	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	79	457576	25.0	26.2	
105 N-Propylbenzene	91	12.341	12.341	0.000	98	10510108	25.0	25.7	
106 2-Chlorotoluene	126	12.414	12.414	0.000	97	2183713	25.0	25.9	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	7578027	25.0	26.5	
108 4-Chlorotoluene	126	12.505	12.506	-0.001	97	2254199	25.0	26.2	
109 tert-Butylbenzene	134	12.713	12.713	0.000	93	1709007	25.0	26.7	
110 Pentachloroethane	167	12.749	12.749	0.000	94	1393932	25.0	26.9	
111 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	7695100	25.0	27.1	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	9553196	25.0	25.9	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	4299389	25.0	26.1	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	96	8347352	25.0	26.8	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1027356	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	95	4316488	25.0	25.4	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	3326481	25.0	25.4	
118 Benzyl chloride	126	13.127	13.127	0.000	98	730613	25.0	29.4	
119 n-Butylbenzene	92	13.280	13.274	0.006	97	4114834	25.0	27.7	
120 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	3881335	25.0	25.4	
122 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	90	270174	25.0	28.6	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	3086150	25.0	27.5	
124 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	2661316	25.0	29.4	
125 Hexachlorobutadiene	225	14.487	14.481	0.006	97	1098859	25.0	25.7	
126 Naphthalene	128	14.584	14.584	0.000	97	5143208	25.0	30.8	
127 1,2,3-Trichlorobenzene	180	14.724	14.725	-0.001	96	2222787	25.0	27.7	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00049	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

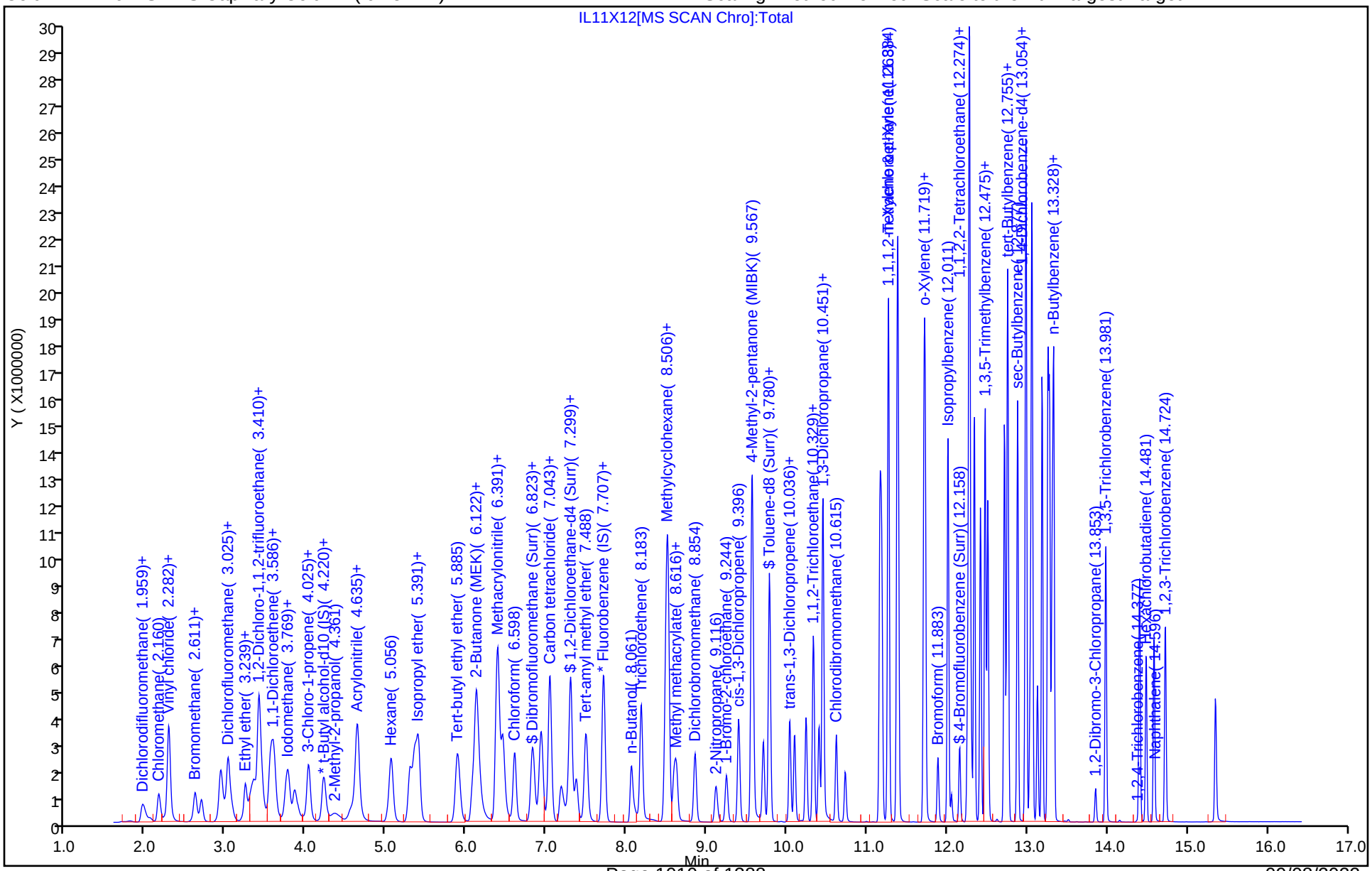
Report Date: 14-Jul-2022 14:51:12 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X12.D

Injection Date:	11-Jul-2022 15:36:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	IC std7			Worklist Smp#:	12
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

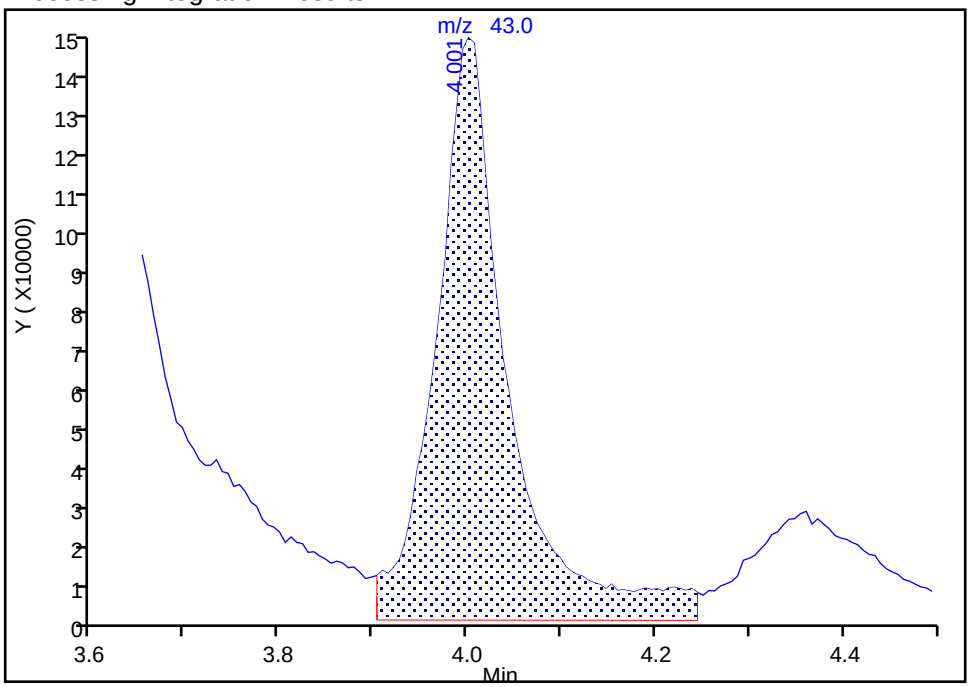
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X12.D				
Injection Date:	11-Jul-2022 15:36:30	Instrument ID:	19930		
Lims ID:	IC std7				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

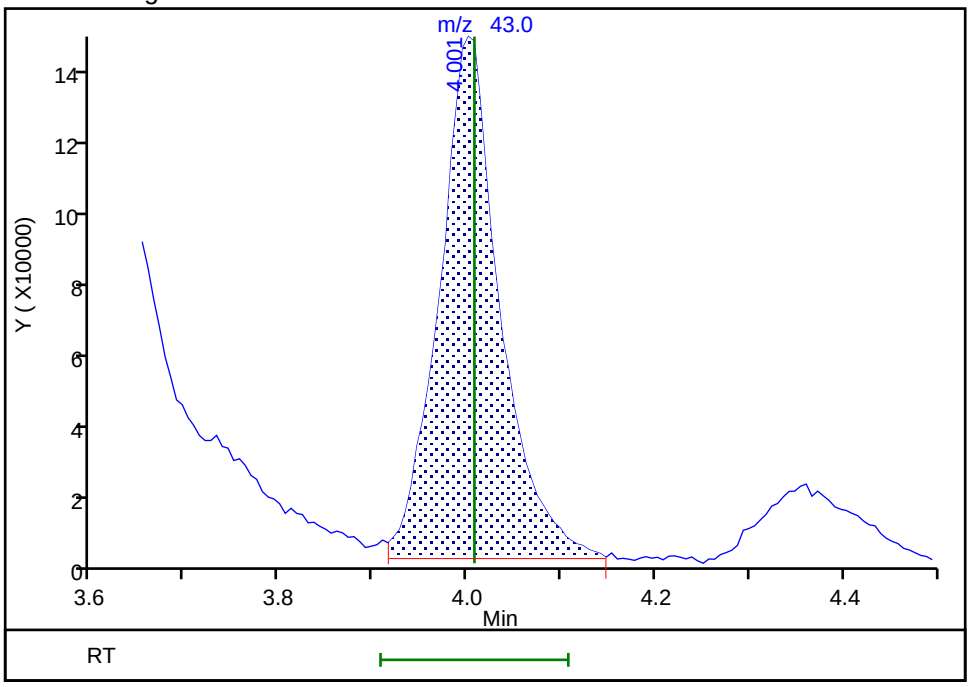
Processing Integration Results

RT: 4.00
Area: 788547
Amount: 25.027765
Amount Units: ug/l



Manual Integration Results

RT: 4.00
Area: 626851
Amount: 24.237268
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:31:46

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X13.D
Lims ID: ICIS - LG
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 11-Jul-2022 15:57:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0061506-013
Misc. Info.: ICIS - LG
Operator ID: kas02648 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 14-Jul-2022 14:51:19 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UKAD Date: 14-Jul-2022 14:50:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.965	1.965	0.000	99	775307	10.0	10.7	
4 Chloromethane	50	2.160	2.160	0.000	99	818721	10.0	9.93	
5 Vinyl chloride	62	2.276	2.276	0.000	98	858174	10.0	10.6	
6 Butadiene	39	2.288	2.288	0.000	90	852580	10.0	9.28	
7 Bromomethane	94	2.617	2.617	0.000	90	568259	10.0	10.0	
8 Chloroethane	64	2.696	2.696	0.000	100	480979	10.0	10.1	
9 Dichlorofluoromethane	67	2.940	2.940	0.000	97	1116663	10.0	10.1	
10 Trichlorofluoromethane	101	3.001	3.001	0.000	97	1136388	10.0	10.6	
11 Ethyl ether	59	3.245	3.245	0.000	90	544583	10.0	10.5	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.330	3.330	0.000	94	832332	10.0	10.2	
13 Acrolein	56	3.416	3.416	0.000	99	4074711	500.0	513.4	
14 1,1-Dichloroethene	96	3.556	3.556	0.000	98	603331	10.0	10.1	
15 Acetone	43	3.580	3.580	0.000	99	879889	100.0	93.9	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.599	3.599	0.000	91	616352	10.0	10.2	
17 Iodomethane	142	3.751	3.751	0.000	98	1062359	10.0	10.1	
18 Ethyl bromide	108	3.782	3.782	0.000	98	557441	10.0	10.3	
19 Carbon disulfide	76	3.861	3.861	0.000	99	1487556	10.0	9.95	
21 Methyl acetate	43	4.007	4.007	0.000	97	259744	10.0	9.43	M
22 3-Chloro-1-propene	41	4.032	4.032	0.000	93	904995	10.0	10.4	
23 Methylene Chloride	84	4.221	4.221	0.000	91	660302	10.0	10.1	
* 24 t-Butyl alcohol-d10 (IS)	65	4.233	4.233	0.000	0	169786	50.0	50.0	
25 2-Methyl-2-propanol	59	4.361	4.361	0.000	99	583038	200.0	199.7	
26 Acrylonitrile	53	4.556	4.556	0.000	99	344055	25.0	26.2	
27 Methyl tert-butyl ether	73	4.629	4.629	0.000	94	1598073	10.0	10.6	
28 trans-1,2-Dichloroethene	96	4.641	4.641	0.000	100	672553	10.0	10.1	
29 Hexane	57	5.062	5.062	0.000	91	1002426	10.0	10.8	
31 1,1-Dichloroethane	63	5.294	5.294	0.000	96	1244444	10.0	10.2	
32 Isopropyl ether	45	5.354	5.354	0.000	94	1994286	10.0	10.7	
33 2-Chloro-1,3-butadiene	53	5.409	5.409	0.000	90	950721	10.0	10.7	
34 Tert-butyl ethyl ether	59	5.891	5.891	0.000	97	1854452	10.0	10.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.086	6.086	0.000	99	1796186	100.0	103.3	
37 cis-1,2-Dichloroethene	96	6.123	6.123	0.000	81	757315	10.0	10.2	
38 2,2-Dichloropropane	77	6.135	6.135	0.000	87	996580	10.0	10.1	
40 Propionitrile	54	6.171	6.171	0.000	99	1059256	200.0	210.0	
42 Methacrylonitrile	67	6.391	6.391	0.000	90	1872168	100.0	103.2	
43 Chlorobromomethane	128	6.452	6.452	0.000	92	339759	10.0	10.1	
44 Tetrahydrofuran	71	6.464	6.464	0.000	78	267322	50.0	53.2	
45 Chloroform	83	6.604	6.604	0.000	93	1226420	10.0	10.1	
$ 46 Dibromofluoromethane (Surr)	113	6.818	6.818	0.000	93	585924	10.0	9.90	
47 1,1,1-Trichloroethane	97	6.830	6.830	0.000	98	1097039	10.0	10.1	
48 Cyclohexane	56	6.933	6.933	0.000	89	1174401	10.0	10.7	
51 1,1-Dichloropropene	75	7.043	7.043	0.000	98	989672	10.0	10.4	
50 Carbon tetrachloride	117	7.043	7.043	0.000	95	994011	10.0	10.2	
52 Isobutyl alcohol	41	7.183	7.183	0.000	95	598022	500.0	522.6	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	0	123948	10.0	10.2	
54 Benzene	78	7.299	7.299	0.000	96	2897543	10.0	10.1	
56 1,2-Dichloroethane	62	7.372	7.372	0.000	97	753838	10.0	9.90	
57 Tert-amyl methyl ether	73	7.488	7.488	0.000	99	1776420	10.0	10.8	
* 58 Fluorobenzene (IS)	96	7.702	7.702	0.000	99	2357451	10.0	10.0	
59 n-Heptane	43	7.714	7.714	0.000	90	1047041	10.0	10.3	
60 n-Butanol	56	8.061	8.061	0.000	86	1044145	875.0	993.4	
61 Trichloroethene	95	8.183	8.183	0.000	97	775746	10.0	10.2	
62 Methylcyclohexane	83	8.488	8.488	0.000	93	1348970	10.0	10.8	
63 1,2-Dichloropropane	63	8.512	8.512	0.000	85	761249	10.0	10.3	
64 Methyl methacrylate	69	8.592	8.592	0.000	91	366085	10.0	11.2	
65 1,4-Dioxane	88	8.604	8.604	0.000	86	133078	500.0	570.9	
66 Dibromomethane	93	8.622	8.622	0.000	94	363345	10.0	10.3	
68 Dichlorobromomethane	83	8.854	8.854	0.000	100	902646	10.0	10.3	
69 2-Nitropropane	41	9.116	9.116	0.000	97	488367	50.0	50.7	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	98	806623	10.0	10.7	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	97	1145232	10.0	10.9	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	4595155	100.0	109.3	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2402818	10.0	9.91	
76 Toluene	92	9.780	9.780	0.000	98	1933919	10.0	10.1	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	91	957404	10.0	11.0	
79 Ethyl methacrylate	69	10.097	10.097	0.000	88	755370	10.0	11.4	
80 1,1,2-Trichloroethane	97	10.238	10.238	0.000	90	550000	10.0	10.2	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	928649	10.0	10.2	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	88	931507	10.0	10.3	
83 2-Hexanone	43	10.451	10.451	0.000	96	3288574	100.0	108.1	
85 Chlorodibromomethane	129	10.616	10.616	0.000	90	702452	10.0	10.6	
86 Ethylene Dibromide	107	10.731	10.731	0.000	99	529520	10.0	10.6	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1868480	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	96	1121836	10.0	10.5	
90 Chlorobenzene	112	11.183	11.183	0.000	96	2166788	10.0	10.1	
91 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	97	750673	10.0	10.2	
92 Ethylbenzene	91	11.268	11.268	0.000	98	3750337	10.0	10.5	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	0	2963343	20.0	21.4	
94 o-Xylene	106	11.713	11.713	0.000	96	1430458	10.0	10.8	
95 Styrene	104	11.725	11.725	0.000	95	2377193	10.0	11.4	
96 Bromoform	173	11.884	11.884	0.000	98	432992	10.0	10.9	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	3743170	10.0	10.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	94	892382	10.0	10.0	
101 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	93	698496	10.0	10.3	
102 Bromobenzene	156	12.274	12.274	0.000	93	893054	10.0	10.2	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	91	1612670	100.0	108.4	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	80	187503	10.0	10.5	
105 N-Propylbenzene	91	12.341	12.341	0.000	99	4475549	10.0	10.7	
106 2-Chlorotoluene	126	12.414	12.414	0.000	97	893270	10.0	10.3	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	3136239	10.0	10.7	
108 4-Chlorotoluene	126	12.506	12.506	0.000	97	922726	10.0	10.5	
109 tert-Butylbenzene	134	12.713	12.713	0.000	93	711868	10.0	10.9	
110 Pentachloroethane	167	12.749	12.749	0.000	93	572219	10.0	10.8	
111 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	3198326	10.0	11.0	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	4052430	10.0	10.7	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	1775352	10.0	10.5	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	3482656	10.0	10.9	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1053034	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	95	1782714	10.0	10.2	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	1374135	10.0	10.2	
118 Benzyl chloride	126	13.127	13.127	0.000	98	286316	10.0	11.3	
119 n-Butylbenzene	92	13.274	13.274	0.000	97	1689776	10.0	11.1	
120 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	1613569	10.0	10.3	
122 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	89	103174	10.0	10.7	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	1205511	10.0	10.5	
124 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	1022023	10.0	11.0	
125 Hexachlorobutadiene	225	14.481	14.481	0.000	96	429212	10.0	9.79	
126 Naphthalene	128	14.584	14.584	0.000	97	2008500	10.0	11.7	
127 1,2,3-Trichlorobenzene	180	14.725	14.725	0.000	96	882018	10.0	10.7	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00049	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

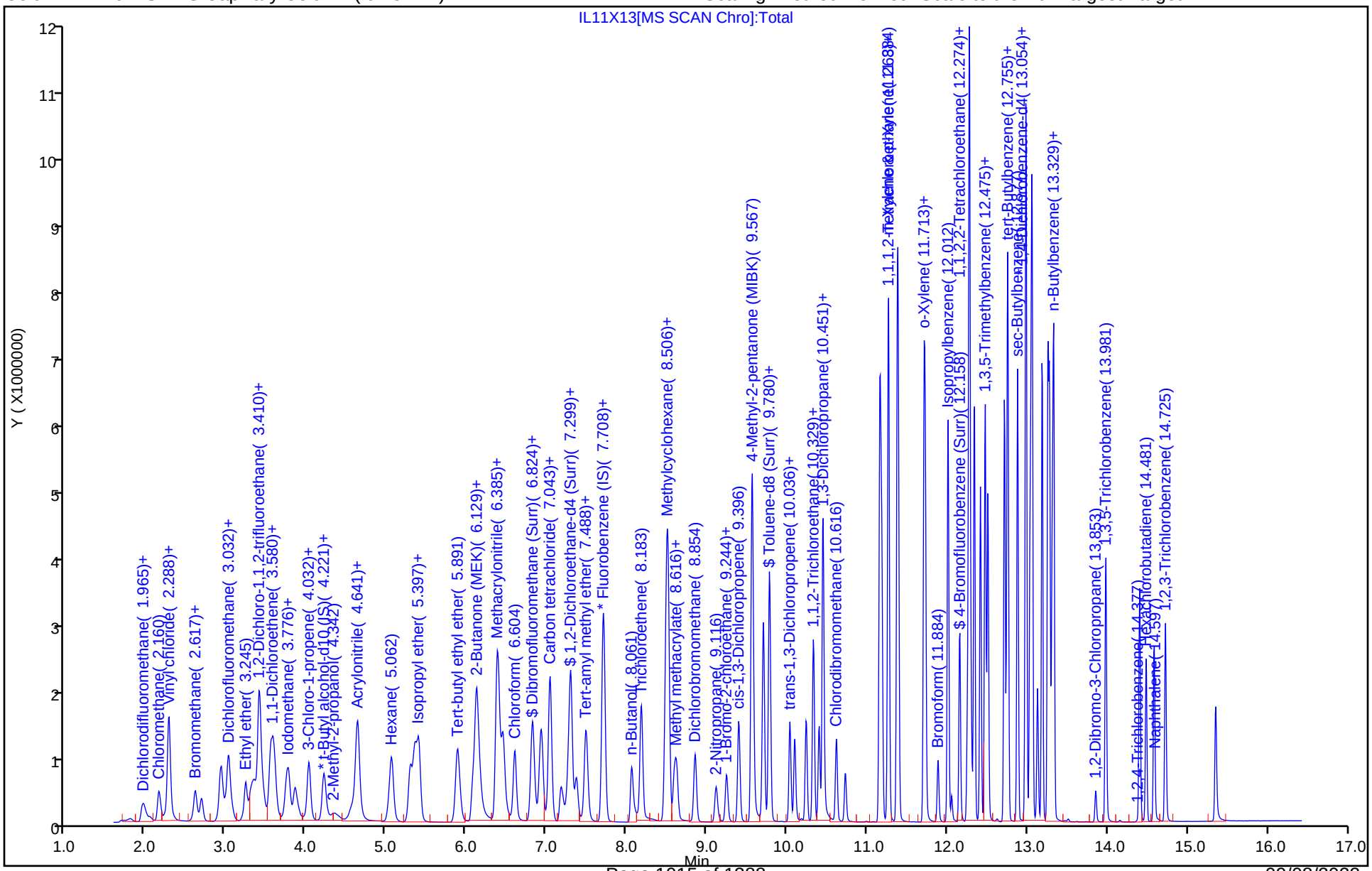
Report Date: 14-Jul-2022 14:51:20 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X13.D

Injection Date:	11-Jul-2022 15:57:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	ICIS - LG			Worklist Smp#:	13
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

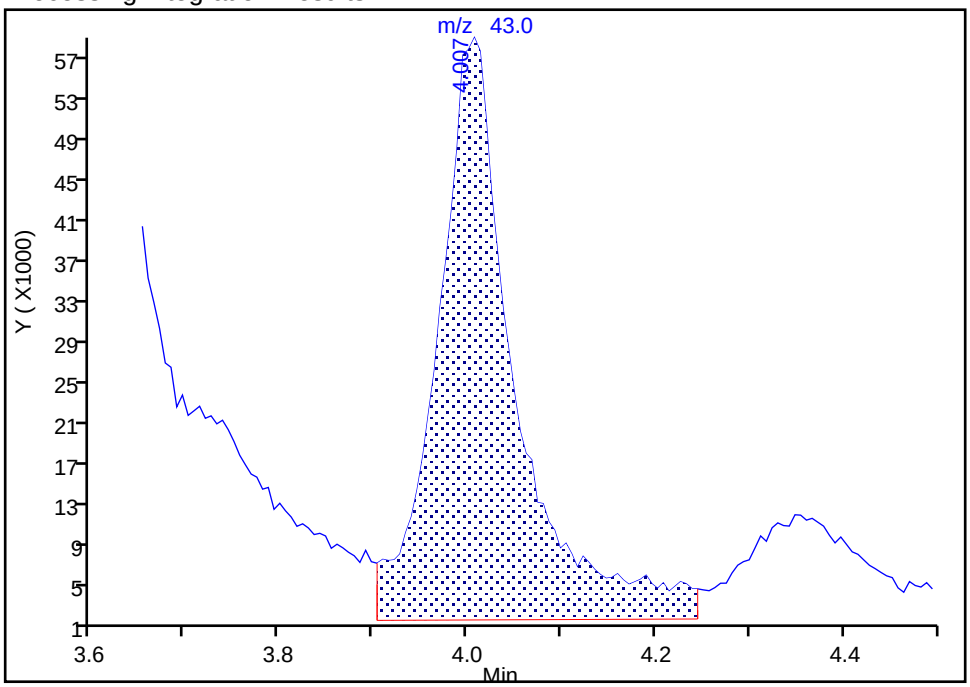
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X13.D				
Injection Date:	11-Jul-2022 15:57:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

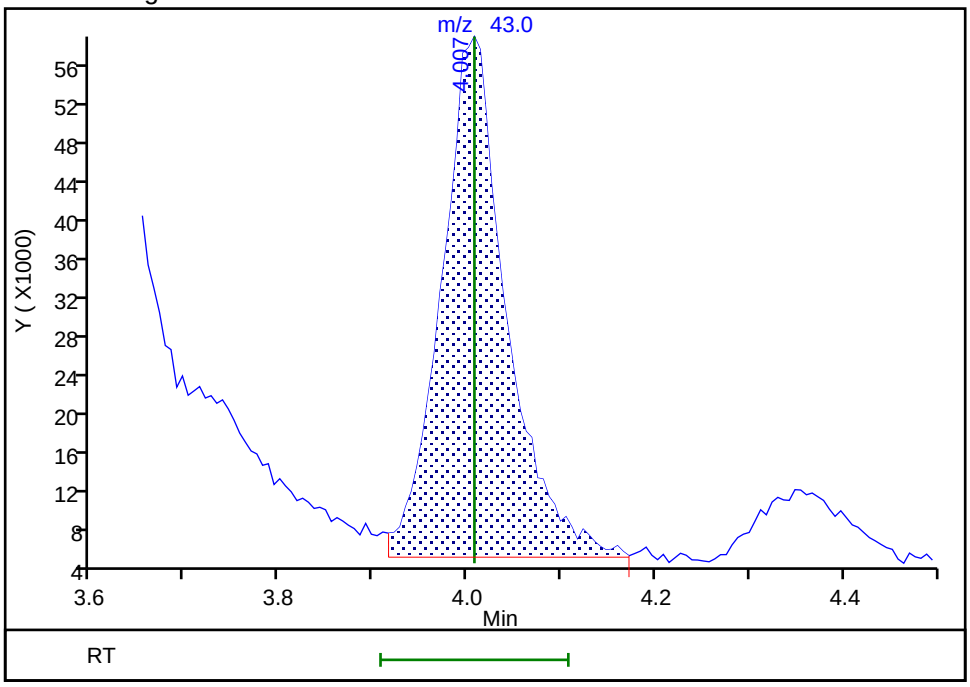
Processing Integration Results

RT: 4.01
Area: 331325
Amount: 11.666230
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 259744
Amount: 9.431942
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:37:09
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X14.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Jul-2022 16:18:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0061506-014
Misc. Info.: IC STD5
Operator ID: kas02648 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 14-Jul-2022 14:51:24 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UKAD Date: 12-Jul-2022 12:39:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.965	1.965	0.000	99	384616	5.00	5.26	
4 Chloromethane	50	2.166	2.160	0.006	99	418793	5.00	5.05	
5 Vinyl chloride	62	2.282	2.276	0.006	98	420647	5.00	5.15	
6 Butadiene	39	2.288	2.288	0.000	90	448852	5.00	4.85	
7 Bromomethane	94	2.617	2.617	0.000	90	279824	5.00	4.91	
8 Chloroethane	64	2.696	2.696	0.000	100	240962	5.00	5.02	
9 Dichlorofluoromethane	67	2.940	2.940	0.000	97	557952	5.00	5.01	
10 Trichlorofluoromethane	101	3.007	3.001	0.006	97	542164	5.00	5.03	
11 Ethyl ether	59	3.251	3.245	0.006	90	262623	5.00	5.05	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.336	3.330	0.006	92	413603	5.00	5.06	
13 Acrolein	56	3.422	3.416	0.006	100	1960560	250.0	267.0	
14 1,1-Dichloroethene	96	3.562	3.556	0.006	98	300676	5.00	5.00	
15 Acetone	43	3.586	3.580	0.006	99	435913	50.0	50.3	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.605	3.599	0.006	91	309872	5.00	5.10	
17 Iodomethane	142	3.757	3.751	0.006	99	526457	5.00	4.98	
18 Ethyl bromide	108	3.781	3.782	-0.001	98	274534	5.00	5.05	
19 Carbon disulfide	76	3.867	3.861	0.006	99	739332	5.00	4.92	
21 Methyl acetate	43	4.007	4.007	0.000	97	127638	5.00	5.01	M
22 3-Chloro-1-propene	41	4.037	4.032	0.005	93	448302	5.00	5.10	
23 Methylene Chloride	84	4.226	4.221	0.005	91	330037	5.00	5.01	
* 24 t-Butyl alcohol-d10 (IS)	65	4.233	4.233	0.000	0	157069	50.0	50.0	
25 2-Methyl-2-propanol	59	4.354	4.361	-0.007	99	290794	100.0	107.7	
26 Acrylonitrile	53	4.562	4.556	0.006	99	165033	12.5	13.6	
27 Methyl tert-butyl ether	73	4.635	4.629	0.006	94	785616	5.00	5.20	
28 trans-1,2-Dichloroethene	96	4.647	4.641	0.006	99	330337	5.00	4.95	
29 Hexane	57	5.074	5.062	0.012	90	488870	5.00	5.24	
31 1,1-Dichloroethane	63	5.299	5.294	0.005	96	613887	5.00	5.02	
32 Isopropyl ether	45	5.360	5.354	0.006	94	981336	5.00	5.22	
33 2-Chloro-1,3-butadiene	53	5.409	5.409	0.000	90	472184	5.00	5.28	
34 Tert-butyl ethyl ether	59	5.891	5.891	0.000	97	913149	5.00	5.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.092	6.086	0.006	99	863076	50.0	53.6	
37 cis-1,2-Dichloroethene	96	6.122	6.123	-0.001	81	375882	5.00	5.04	
38 2,2-Dichloropropane	77	6.141	6.135	0.006	86	500444	5.00	5.05	
S 35 1,2-Dichloroethene, Total	100				0			9.99	
40 Propionitrile	54	6.177	6.171	0.006	99	511477	100.0	109.6	
42 Methacrylonitrile	67	6.391	6.391	0.000	90	929830	50.0	55.4	
43 Chlorobromomethane	128	6.458	6.452	0.006	92	169421	5.00	5.01	
44 Tetrahydrofuran	71	6.470	6.464	0.006	75	130774	25.0	28.1	
45 Chloroform	83	6.604	6.604	0.000	93	609419	5.00	4.97	
$ 46 Dibromofluoromethane (Surr)	113	6.817	6.818	-0.001	94	586295	10.0	9.85	
47 1,1,1-Trichloroethane	97	6.836	6.830	0.006	98	551762	5.00	5.03	
48 Cyclohexane	56	6.933	6.933	0.000	89	579878	5.00	5.27	
51 1,1-Dichloropropene	75	7.049	7.043	0.006	97	487745	5.00	5.11	
50 Carbon tetrachloride	117	7.043	7.043	0.000	84	500314	5.00	5.10	
52 Isobutyl alcohol	41	7.183	7.183	0.000	94	274118	250.0	258.9	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	0	119950	10.0	9.81	
54 Benzene	78	7.305	7.299	0.006	97	1435836	5.00	5.00	
56 1,2-Dichloroethane	62	7.372	7.372	0.000	97	381309	5.00	4.98	
57 Tert-amyl methyl ether	73	7.494	7.488	0.006	99	871660	5.00	5.27	
* 58 Fluorobenzene (IS)	96	7.708	7.702	0.006	99	2371836	10.0	10.0	
59 n-Heptane	43	7.720	7.714	0.006	89	512397	5.00	4.99	
60 n-Butanol	56	8.067	8.061	0.006	87	463205	437.5	476.4	
61 Trichloroethene	95	8.183	8.183	0.000	97	386689	5.00	5.06	
62 Methylcyclohexane	83	8.488	8.488	0.000	93	665622	5.00	5.28	
63 1,2-Dichloropropane	63	8.512	8.512	0.000	97	378228	5.00	5.10	
64 Methyl methacrylate	69	8.598	8.592	0.006	89	166034	5.00	5.50	
65 1,4-Dioxane	88	8.598	8.604	-0.006	33	58794	250.0	272.6	M
66 Dibromomethane	93	8.622	8.622	0.000	94	181173	5.00	5.10	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	445583	5.00	5.07	
69 2-Nitropropane	41	9.116	9.116	0.000	99	233496	25.0	26.2	
72 1-Bromo-2-chloroethane	63	9.250	9.244	0.006	98	393920	5.00	5.20	
73 cis-1,3-Dichloropropene	75	9.402	9.396	0.006	97	555968	5.00	5.28	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	2223914	50.0	57.2	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2416659	10.0	10.1	
76 Toluene	92	9.780	9.780	0.000	98	952092	5.00	5.01	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	91	459025	5.00	5.30	
S 77 1,3-Dichloropropene, Total	100				0			10.6	
79 Ethyl methacrylate	69	10.097	10.097	0.000	88	352387	5.00	5.38	
80 1,1,2-Trichloroethane	97	10.244	10.238	0.006	90	273779	5.00	5.12	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	459498	5.00	5.07	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	88	459902	5.00	5.14	
83 2-Hexanone	43	10.451	10.451	0.000	96	1555827	50.0	55.3	
85 Chlorodibromomethane	129	10.615	10.616	-0.001	90	341396	5.00	5.19	
86 Ethylene Dibromide	107	10.731	10.731	0.000	99	258812	5.00	5.22	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1851570	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	96	547727	5.00	5.15	
90 Chlorobenzene	112	11.182	11.183	-0.001	96	1077231	5.00	5.06	
S 89 Xylenes, Total	106				0			15.9	
91 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	96	372032	5.00	5.11	
92 Ethylbenzene	91	11.268	11.268	0.000	98	1851439	5.00	5.24	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	0	1459288	10.0	10.6	
94 o-Xylene	106	11.713	11.713	0.000	96	696205	5.00	5.31	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.725	11.725	0.000	95	1143544	5.00	5.51	
96 Bromoform	173	11.884	11.884	0.000	97	207414	5.00	5.28	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	1836655	5.00	5.39	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	94	896770	10.0	10.2	
101 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	93	341267	5.00	5.05	
102 Bromobenzene	156	12.274	12.274	0.000	94	442560	5.00	5.08	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	91	753084	50.0	54.7	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	79	91564	5.00	5.13	
105 N-Propylbenzene	91	12.341	12.341	0.000	99	2213899	5.00	5.30	
106 2-Chlorotoluene	126	12.414	12.414	0.000	97	444100	5.00	5.16	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	1542218	5.00	5.28	
108 4-Chlorotoluene	126	12.511	12.506	0.005	96	452113	5.00	5.15	
109 tert-Butylbenzene	134	12.713	12.713	0.000	93	348862	5.00	5.33	
110 Pentachloroethane	167	12.749	12.749	0.000	92	277235	5.00	5.24	
111 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	1570696	5.00	5.41	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	2001677	5.00	5.30	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	859840	5.00	5.11	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	1729810	5.00	5.44	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1050302	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	96	876650	5.00	5.04	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	680186	5.00	5.08	
118 Benzyl chloride	126	13.127	13.127	0.000	98	135138	5.00	5.33	
119 n-Butylbenzene	92	13.280	13.274	0.006	97	828929	5.00	5.46	
120 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	791941	5.00	5.06	
122 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	88	48476	5.00	5.03	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	594545	5.00	5.18	
124 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	490690	5.00	5.30	
125 Hexachlorobutadiene	225	14.481	14.481	0.000	96	207781	5.00	4.75	
126 Naphthalene	128	14.584	14.584	0.000	97	933937	5.00	5.47	
127 1,2,3-Trichlorobenzene	180	14.724	14.725	-0.001	96	427022	5.00	5.20	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00049	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	5.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

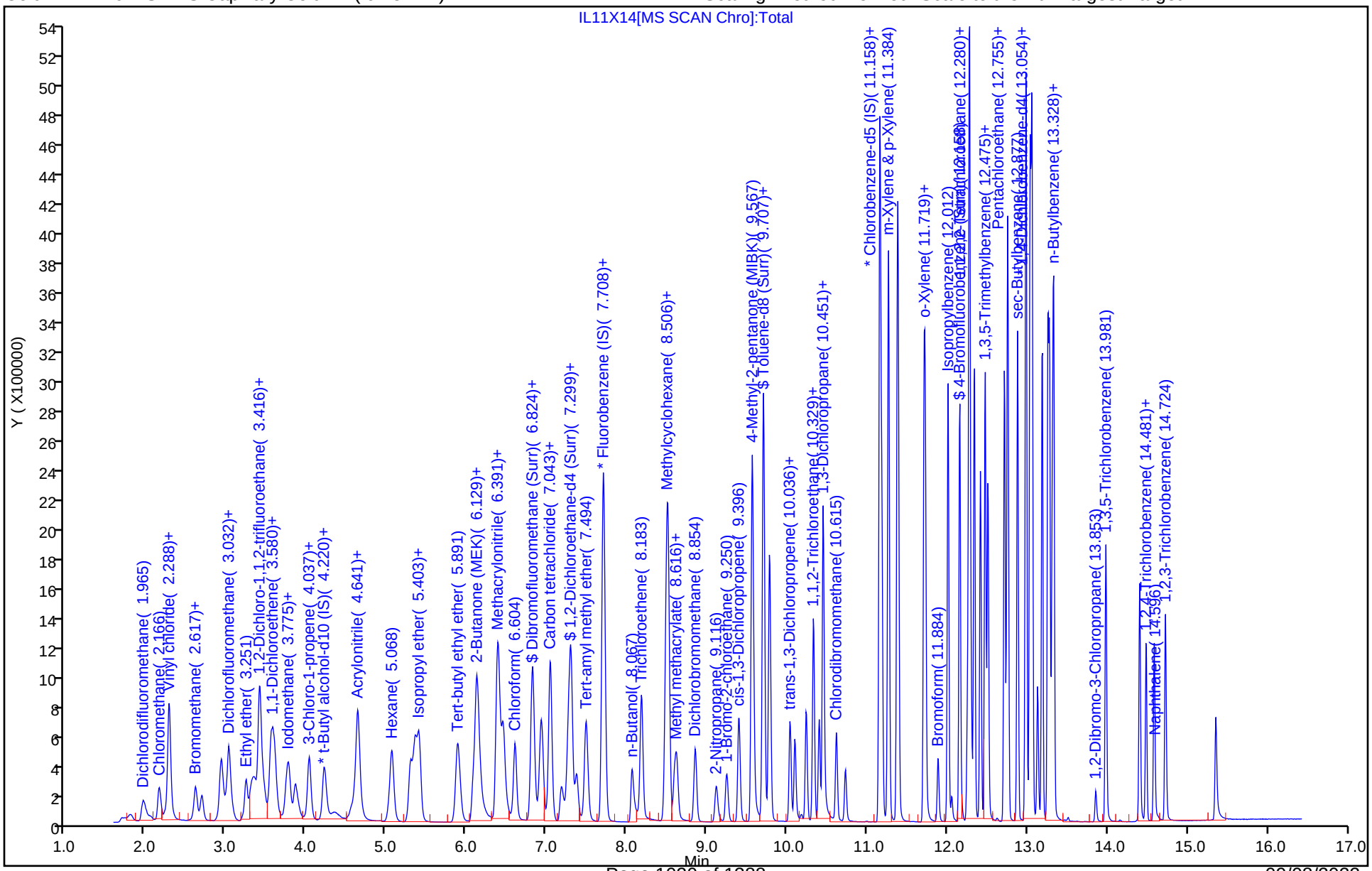
Report Date: 14-Jul-2022 14:51:25 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X14.D

Injection Date:	11-Jul-2022 16:18:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	IC std5			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

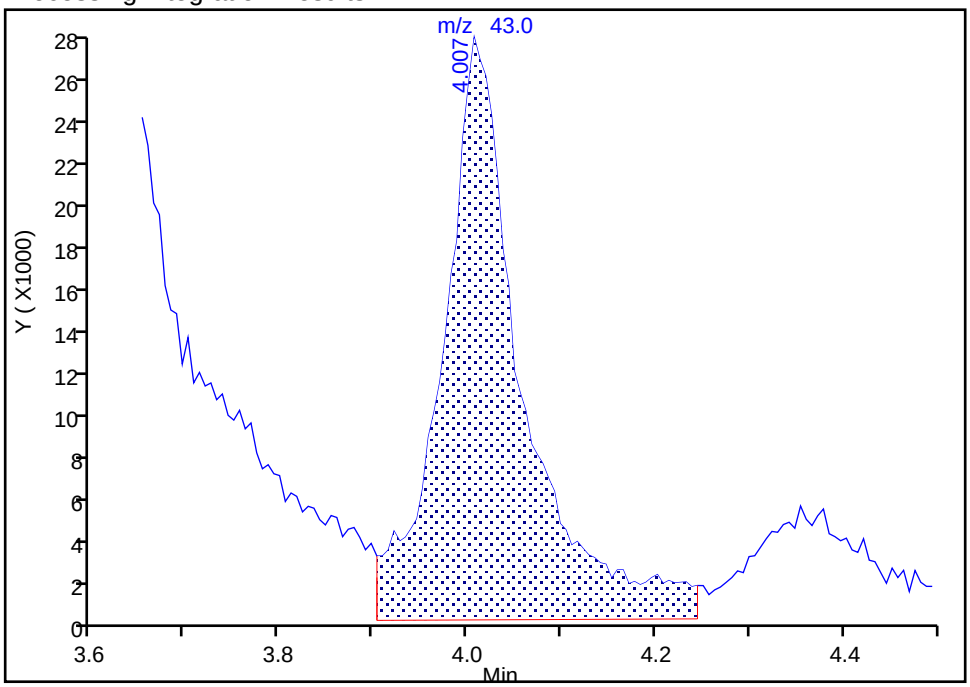
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X14.D				
Injection Date:	11-Jul-2022 16:18:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

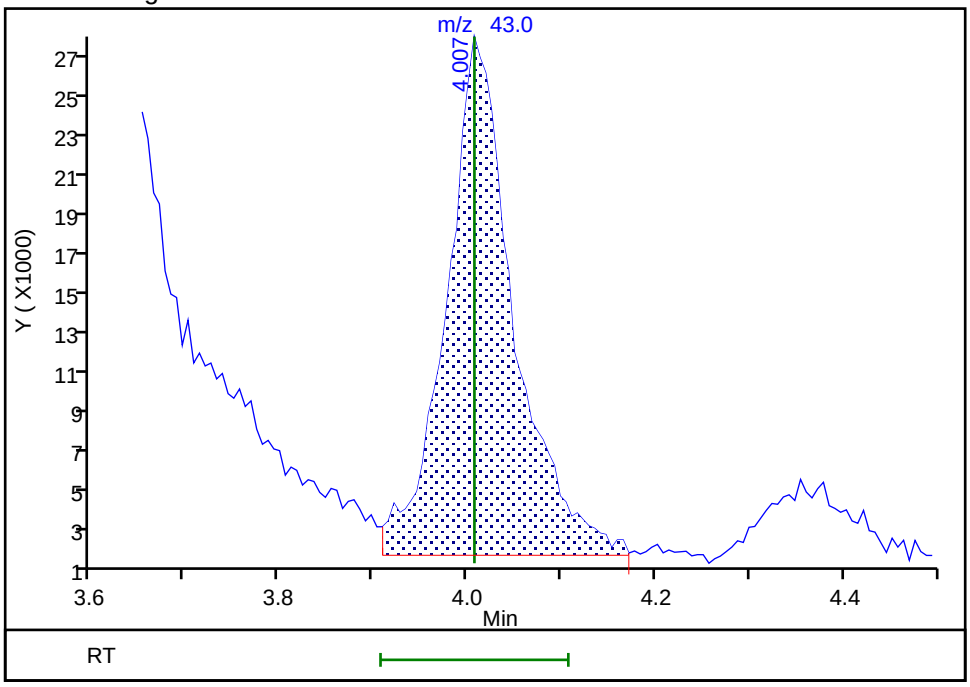
Processing Integration Results

RT: 4.01
Area: 161403
Amount: 6.192289
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 127638
Amount: 5.010107
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:38:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

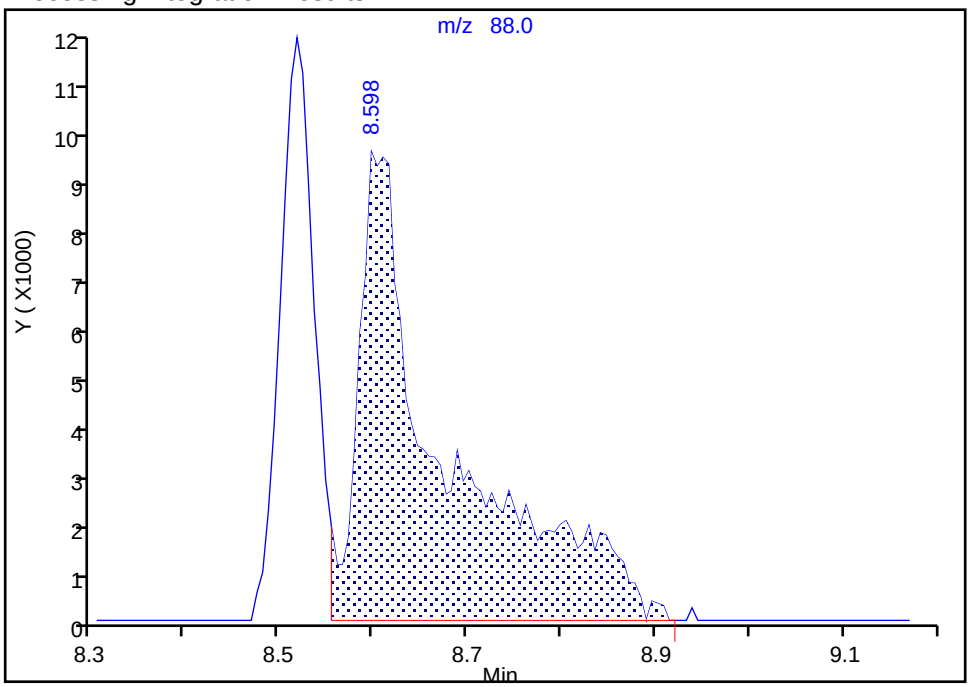
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X14.D				
Injection Date:	11-Jul-2022 16:18:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

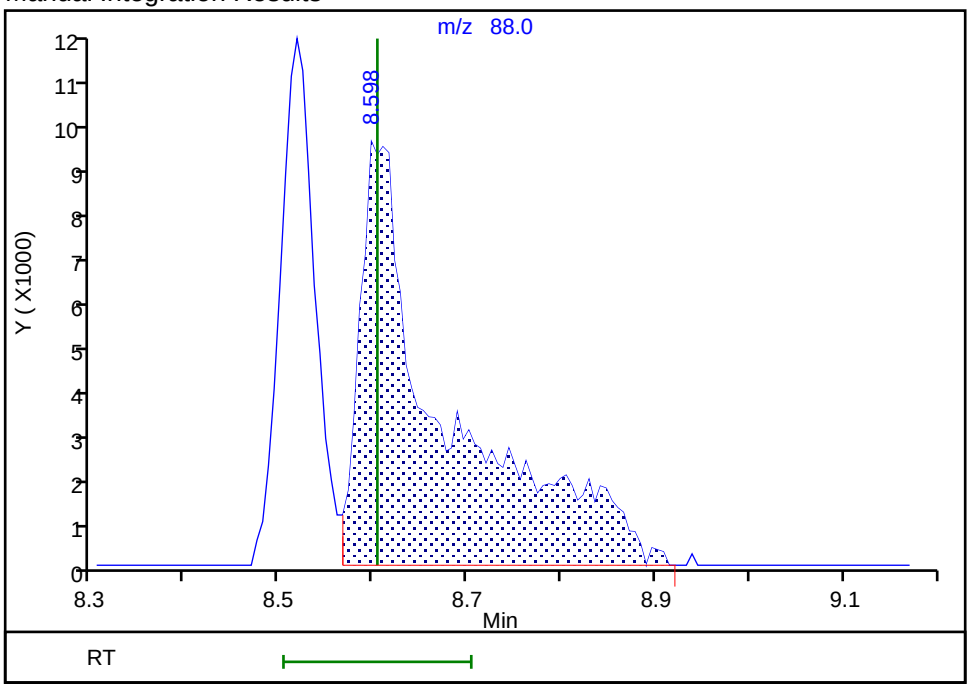
Processing Integration Results

RT: 8.60
Area: 59882
Amount: 292.4547
Amount Units: ug/l



Manual Integration Results

RT: 8.60
Area: 58794
Amount: 272.6240
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:39:24
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X15.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Jul-2022 16:39:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0061506-015
Misc. Info.: IC STD4
Operator ID: kas02648 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 14-Jul-2022 14:51:30 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UKAD Date: 12-Jul-2022 12:41:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.959	1.959	0.000	99	155928	2.00	2.16	
4 Chloromethane	50	2.160	2.160	0.000	99	174469	2.00	2.13	
5 Vinyl chloride	62	2.276	2.276	0.000	98	175211	2.00	2.17	
6 Butadiene	39	2.288	2.288	0.000	91	181981	2.00	1.99	
7 Bromomethane	94	2.617	2.617	0.000	90	118171	2.00	2.10	
8 Chloroethane	64	2.696	2.696	0.000	99	100916	2.00	2.13	
9 Dichlorofluoromethane	67	2.934	2.934	0.000	97	233451	2.00	2.12	
10 Trichlorofluoromethane	101	3.007	3.007	0.000	94	235907	2.00	2.22	
11 Ethyl ether	59	3.245	3.245	0.000	90	110740	2.00	2.15	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.343	3.343	0.000	94	170916	2.00	2.12	
13 Acrolein	56	3.422	3.422	0.000	100	781875	100.0	99.7	
14 1,1-Dichloroethene	96	3.556	3.556	0.000	98	119792	2.00	2.02	
15 Acetone	43	3.593	3.593	0.000	96	185987	20.0	20.1	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.599	3.599	0.000	91	123477	2.00	2.06	
17 Iodomethane	142	3.763	3.763	0.000	98	211139	2.00	2.02	
18 Ethyl bromide	108	3.782	3.782	0.000	98	114268	2.00	2.13	
19 Carbon disulfide	76	3.861	3.861	0.000	99	300692	2.00	2.02	
21 Methyl acetate	43	4.013	4.013	0.000	97	51429	2.00	1.89	M
22 3-Chloro-1-propene	41	4.038	4.038	0.000	93	173644	2.00	2.00	
23 Methylene Chloride	84	4.220	4.220	0.000	90	130455	2.00	2.01	
* 24 t-Butyl alcohol-d10 (IS)	65	4.239	4.239	0.000	0	167734	50.0	50.0	
25 2-Methyl-2-propanol	59	4.361	4.361	0.000	98	115361	40.0	40.0	
26 Acrylonitrile	53	4.568	4.568	0.000	98	64297	5.00	4.96	
27 Methyl tert-butyl ether	73	4.629	4.629	0.000	95	305329	2.00	2.05	
28 trans-1,2-Dichloroethene	96	4.641	4.641	0.000	99	132511	2.00	2.01	
29 Hexane	57	5.074	5.074	0.000	91	188753	2.00	2.05	
31 1,1-Dichloroethane	63	5.300	5.300	0.000	96	245824	2.00	2.04	
32 Isopropyl ether	45	5.354	5.354	0.000	93	380072	2.00	2.05	
33 2-Chloro-1,3-butadiene	53	5.409	5.409	0.000	90	182677	2.00	2.07	
34 Tert-butyl ethyl ether	59	5.897	5.897	0.000	97	355813	2.00	2.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.098	6.098	0.000	99	347526	20.0	20.2	
37 cis-1,2-Dichloroethene	96	6.129	6.129	0.000	81	149512	2.00	2.03	
38 2,2-Dichloropropane	77	6.135	6.135	0.000	90	200572	2.00	2.05	
S 35 1,2-Dichloroethene, Total	100				0			4.04	
40 Propionitrile	54	6.183	6.183	0.000	99	200315	40.0	40.2	
42 Methacrylonitrile	67	6.391	6.391	0.000	91	359507	20.0	20.1	
43 Chlorobromomethane	128	6.458	6.458	0.000	89	68358	2.00	2.05	
44 Tetrahydrofuran	71	6.470	6.470	0.000	75	51391	10.0	10.3	
45 Chloroform	83	6.610	6.610	0.000	92	243271	2.00	2.01	
$ 46 Dibromofluoromethane (Surr)	113	6.818	6.818	0.000	94	585192	10.0	9.95	
47 1,1,1-Trichloroethane	97	6.836	6.836	0.000	98	220204	2.00	2.03	
48 Cyclohexane	56	6.933	6.933	0.000	89	222228	2.00	2.05	
51 1,1-Dichloropropene	75	7.043	7.043	0.000	97	193566	2.00	2.05	
50 Carbon tetrachloride	117	7.043	7.043	0.000	86	196686	2.00	2.03	
52 Isobutyl alcohol	41	7.195	7.195	0.000	94	121187	100.0	107.2	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.275	0.000	0	120029	10.0	9.94	
54 Benzene	78	7.305	7.305	0.000	97	580651	2.00	2.05	
56 1,2-Dichloroethane	62	7.372	7.372	0.000	97	153866	2.00	2.03	
57 Tert-amyl methyl ether	73	7.494	7.494	0.000	99	337103	2.00	2.06	
* 58 Fluorobenzene (IS)	96	7.701	7.701	0.000	99	2342051	10.0	10.0	
59 n-Heptane	43	7.720	7.720	0.000	91	201314	2.00	1.98	
60 n-Butanol	56	8.073	8.073	0.000	89	175348	175.0	168.9	
61 Trichloroethene	95	8.183	8.183	0.000	97	153756	2.00	2.04	
62 Methylcyclohexane	83	8.494	8.494	0.000	93	256079	2.00	2.06	
63 1,2-Dichloropropane	63	8.512	8.512	0.000	97	147680	2.00	2.02	
64 Methyl methacrylate	69	8.598	8.598	0.000	90	57955	2.00	1.80	
65 1,4-Dioxane	88	8.598	8.598	0.000	34	26767	100.0	116.2	M
66 Dibromomethane	93	8.622	8.622	0.000	95	71241	2.00	2.03	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	173299	2.00	2.00	
69 2-Nitropropane	41	9.122	9.122	0.000	99	91311	10.0	9.59	
72 1-Bromo-2-chloroethane	63	9.250	9.250	0.000	99	161266	2.00	2.16	
73 cis-1,3-Dichloropropene	75	9.402	9.402	0.000	97	209732	2.00	2.02	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	96	850428	20.0	20.5	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2384964	10.0	10.1	
76 Toluene	92	9.780	9.780	0.000	98	382193	2.00	2.05	
78 trans-1,3-Dichloropropene	75	10.042	10.042	0.000	91	170253	2.00	2.00	
S 77 1,3-Dichloropropene, Total	100				0			4.02	
79 Ethyl methacrylate	69	10.103	10.103	0.000	88	124735	2.00	1.94	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	90	106873	2.00	2.03	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	184199	2.00	2.07	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	89	180675	2.00	2.06	
83 2-Hexanone	43	10.457	10.457	0.000	97	584996	20.0	19.5	
85 Chlorodibromomethane	129	10.616	10.616	0.000	90	133590	2.00	2.07	
86 Ethylene Dibromide	107	10.731	10.731	0.000	98	99455	2.00	2.04	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1818084	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	96	211339	2.00	2.02	
90 Chlorobenzene	112	11.183	11.183	0.000	96	433225	2.00	2.07	
S 89 Xylenes, Total	106				0			6.30	
91 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	95	147143	2.00	2.06	
92 Ethylbenzene	91	11.268	11.268	0.000	98	720722	2.00	2.08	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	0	571561	4.00	4.23	
94 o-Xylene	106	11.713	11.713	0.000	96	266251	2.00	2.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.731	11.731	0.000	95	427773	2.00	2.10	
96 Bromoform	173	11.890	11.890	0.000	97	78295	2.00	2.03	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	701622	2.00	2.10	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	93	879986	10.0	10.2	
101 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	92	135802	2.00	2.06	
102 Bromobenzene	156	12.274	12.274	0.000	95	173833	2.00	2.04	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	291069	20.0	19.8	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	81	36714	2.00	2.11	
105 N-Propylbenzene	91	12.341	12.341	0.000	99	866089	2.00	2.13	
106 2-Chlorotoluene	126	12.414	12.414	0.000	97	173676	2.00	2.07	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	93	601055	2.00	2.11	
108 4-Chlorotoluene	126	12.512	12.512	0.000	97	175042	2.00	2.04	
109 tert-Butylbenzene	134	12.713	12.713	0.000	93	135208	2.00	2.12	
110 Pentachloroethane	167	12.749	12.749	0.000	93	113412	2.00	2.19	
111 1,2,4-Trimethylbenzene	105	12.761	12.761	0.000	97	605752	2.00	2.14	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	776377	2.00	2.11	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	97	341099	2.00	2.08	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	664352	2.00	2.14	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1025087	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	96	351752	2.00	2.07	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	266135	2.00	2.04	
118 Benzyl chloride	126	13.133	13.133	0.000	98	47192	2.00	1.91	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	317643	2.00	2.15	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	99	319534	2.00	2.09	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	89	18632	2.00	1.98	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	97	226924	2.00	2.03	
124 1,2,4-Trichlorobenzene	180	14.408	14.408	0.000	95	186055	2.00	2.06	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	97	84467	2.00	1.98	
126 Naphthalene	128	14.584	14.584	0.000	97	342941	2.00	2.06	
127 1,2,3-Trichlorobenzene	180	14.725	14.725	0.000	96	169677	2.00	2.12	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00049	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

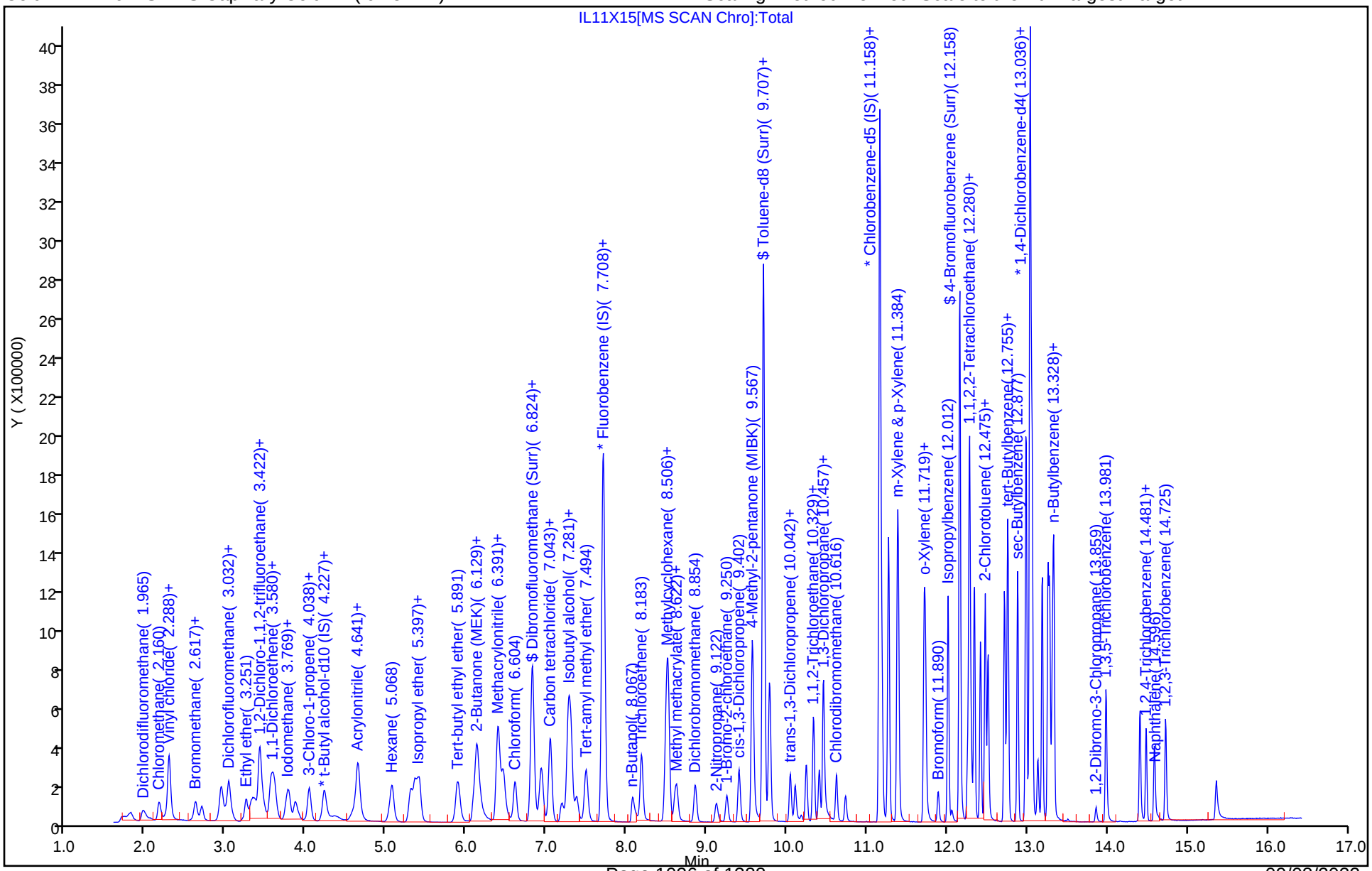
Report Date: 14-Jul-2022 14:51:31 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X15.D

Injection Date:	11-Jul-2022 16:39:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	IC std4			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

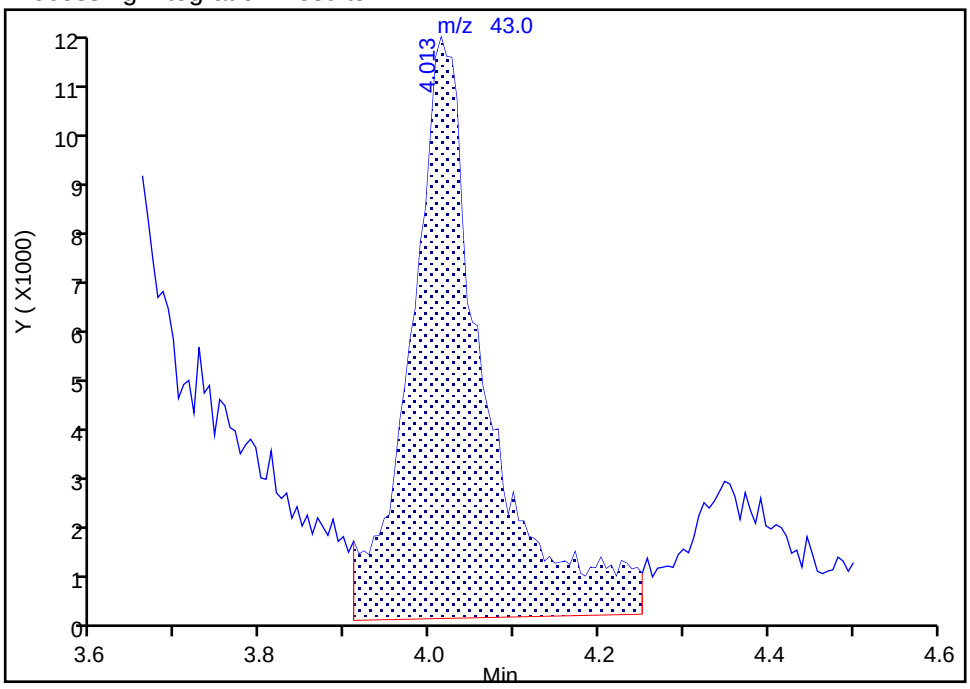
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X15.D				
Injection Date:	11-Jul-2022 16:39:30	Instrument ID:	19930		
Lims ID:	IC std4				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

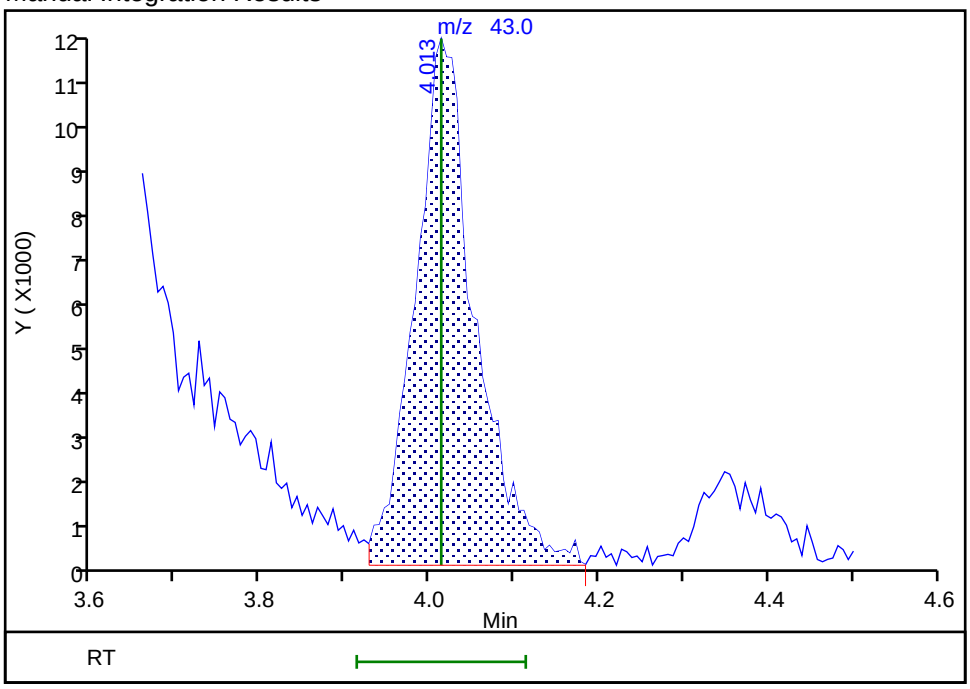
Processing Integration Results

RT: 4.01
Area: 68926
Amount: 2.413745
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 51429
Amount: 1.890360
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:40:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

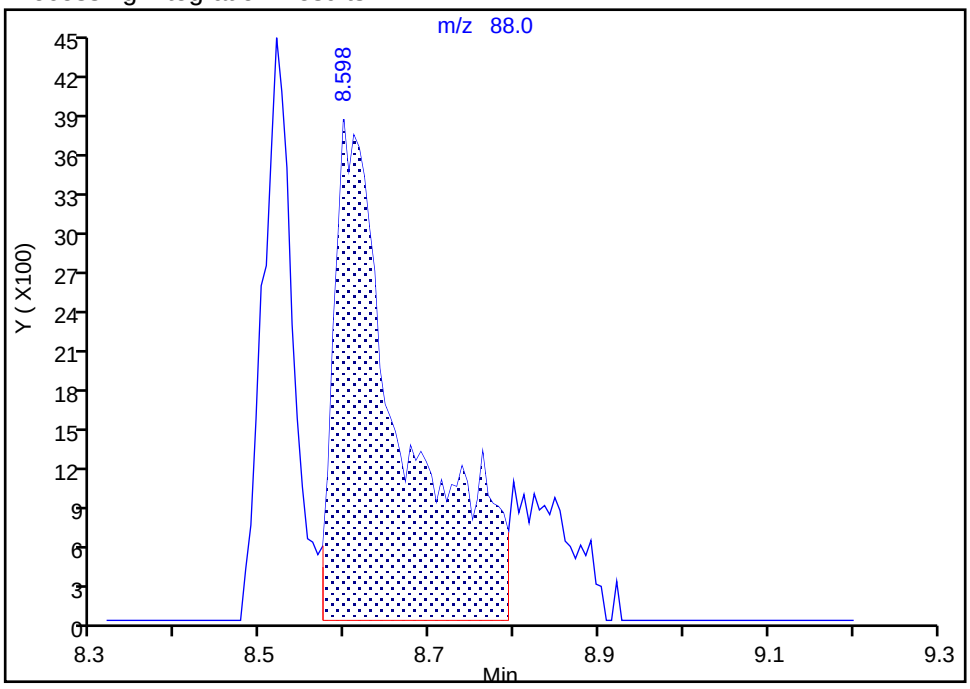
Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X15.D
Injection Date: 11-Jul-2022 16:39:30 Instrument ID: 19930
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

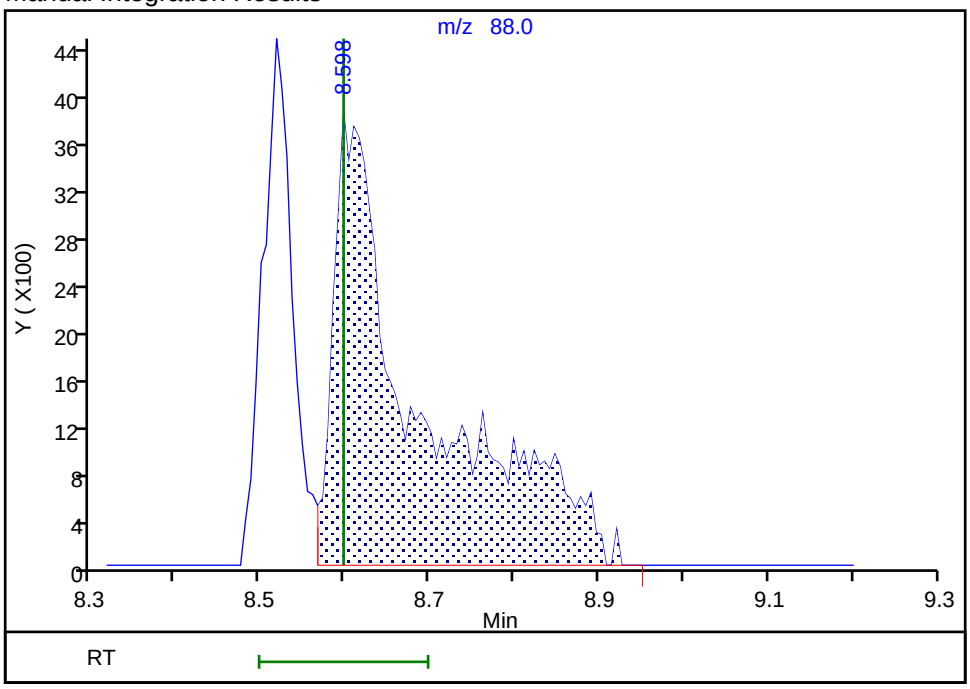
Processing Integration Results

RT: 8.60
Area: 21835
Amount: 100.2134
Amount Units: ug/l



Manual Integration Results

RT: 8.60
Area: 26767
Amount: 116.2252
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:41:08
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X16.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Jul-2022 17:00:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0061506-016
Misc. Info.: IC STD3
Operator ID: kas02648 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 14-Jul-2022 14:51:37 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UKAD Date: 12-Jul-2022 12:43:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.965	1.959	0.006	99	65034	1.00	0.9184	
4 Chloromethane	50	2.160	2.160	0.000	99	75677	1.00	0.9411	
5 Vinyl chloride	62	2.270	2.276	-0.006	81	75123	1.00	0.9488	
6 Butadiene	39	2.282	2.288	-0.006	89	87308	1.00	0.9742	
7 Bromomethane	94	2.617	2.617	0.000	91	50700	1.00	0.9183	
8 Chloroethane	64	2.690	2.696	-0.006	100	43956	1.00	0.9441	
9 Dichlorofluoromethane	67	2.934	2.934	0.000	96	99392	1.00	0.9211	
10 Trichlorofluoromethane	101	2.995	3.007	-0.012	97	99512	1.00	0.9523	M
11 Ethyl ether	59	3.245	3.245	0.000	90	46274	1.00	0.9173	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.324	3.343	-0.019	91	74340	1.00	0.9387	
13 Acrolein	56	3.422	3.422	0.000	100	342456	50.0	47.1	
14 1,1-Dichloroethene	96	3.556	3.556	0.000	98	58456	1.00	1.00	
15 Acetone	43	3.580	3.593	-0.013	85	88233	10.0	10.3	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.592	3.599	-0.007	90	57473	1.00	0.9753	
17 Iodomethane	142	3.751	3.763	-0.012	99	98192	1.00	0.9579	
18 Ethyl bromide	108	3.775	3.782	-0.007	97	50489	1.00	0.9585	
19 Carbon disulfide	76	3.867	3.861	0.006	99	139748	1.00	0.9585	
21 Methyl acetate	43	4.019	4.013	0.006	97	26844	1.00	1.06	M
22 3-Chloro-1-propene	41	4.037	4.038	-0.001	93	81784	1.00	0.9592	
23 Methylene Chloride	84	4.220	4.220	0.000	91	62695	1.00	0.9817	
* 24 t-Butyl alcohol-d10 (IS)	65	4.226	4.239	-0.013	0	155670	50.0	50.0	
25 2-Methyl-2-propanol	59	4.336	4.361	-0.025	98	55599	20.0	20.8	
26 Acrylonitrile	53	4.568	4.568	0.000	99	30973	2.50	2.57	
27 Methyl tert-butyl ether	73	4.629	4.629	0.000	95	138867	1.00	0.9489	
28 trans-1,2-Dichloroethene	96	4.647	4.641	0.006	99	62500	1.00	0.9668	
29 Hexane	57	5.062	5.074	-0.012	92	84124	1.00	0.9308	
31 1,1-Dichloroethane	63	5.299	5.300	-0.001	96	114187	1.00	0.9636	
32 Isopropyl ether	45	5.354	5.354	0.000	93	171221	1.00	0.9393	
33 2-Chloro-1,3-butadiene	53	5.409	5.409	0.000	90	81681	1.00	0.9421	
34 Tert-butyl ethyl ether	59	5.885	5.897	-0.012	97	160279	1.00	0.9487	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.092	6.098	-0.006	99	158385	10.0	9.93	
37 cis-1,2-Dichloroethene	96	6.122	6.129	-0.007	82	68884	1.00	0.9521	
38 2,2-Dichloropropane	77	6.141	6.135	0.006	86	92476	1.00	0.9624	
S 35 1,2-Dichloroethene, Total	100				0			1.92	
40 Propionitrile	54	6.177	6.183	-0.006	99	91432	20.0	19.8	
42 Methacrylonitrile	67	6.391	6.391	0.000	91	164353	10.0	9.88	
43 Chlorobromomethane	128	6.452	6.458	-0.006	91	31972	1.00	0.9748	
44 Tetrahydrofuran	71	6.482	6.470	0.012	77	22551	5.00	4.89	a
45 Chloroform	83	6.604	6.610	-0.006	93	115466	1.00	0.9715	
$ 46 Dibromofluoromethane (Surr)	113	6.817	6.818	-0.001	94	582148	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.824	6.836	-0.012	92	102310	1.00	0.9617	
48 Cyclohexane	56	6.939	6.933	0.006	90	101574	1.00	0.9532	
51 1,1-Dichloropropene	75	7.043	7.043	0.000	96	88566	1.00	0.9577	
50 Carbon tetrachloride	117	7.043	7.043	0.000	90	91238	1.00	0.9601	
52 Isobutyl alcohol	41	7.189	7.195	-0.006	94	54305	50.0	51.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.275	-0.006	0	117116	10.0	9.88	
54 Benzene	78	7.299	7.305	-0.006	94	269454	1.00	0.9679	
56 1,2-Dichloroethane	62	7.366	7.372	-0.006	97	71341	1.00	0.9612	
57 Tert-amyl methyl ether	73	7.494	7.494	0.000	98	150623	1.00	0.9394	
* 58 Fluorobenzene (IS)	96	7.701	7.701	0.000	99	2298931	10.0	10.0	
59 n-Heptane	43	7.714	7.720	-0.006	92	97288	1.00	0.9770	
60 n-Butanol	56	8.085	8.073	0.012	88	70052	87.5	72.7	
61 Trichloroethene	95	8.183	8.183	0.000	96	70491	1.00	0.9514	
62 Methylcyclohexane	83	8.488	8.494	-0.006	94	115995	1.00	0.9495	
63 1,2-Dichloropropane	63	8.512	8.512	0.000	76	69528	1.00	0.9673	
64 Methyl methacrylate	69	8.604	8.598	0.006	89	25973	1.00	0.8673	
65 1,4-Dioxane	88	8.604	8.598	0.006	47	7533	50.0	35.2	
66 Dibromomethane	93	8.622	8.622	0.000	93	33297	1.00	0.9671	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	80968	1.00	0.9497	
69 2-Nitropropane	41	9.116	9.122	-0.006	99	43118	5.00	4.88	
72 1-Bromo-2-chloroethane	63	9.250	9.250	0.000	98	68663	1.00	0.9358	
73 cis-1,3-Dichloropropene	75	9.402	9.402	0.000	97	95346	1.00	0.9334	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	96	372880	10.0	9.67	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2356053	10.0	10.1	
76 Toluene	92	9.786	9.780	0.006	99	180800	1.00	0.9806	
78 trans-1,3-Dichloropropene	75	10.048	10.042	0.006	91	79245	1.00	0.9419	
S 77 1,3-Dichloropropene, Total	100				0			1.88	
79 Ethyl methacrylate	69	10.103	10.103	0.000	88	51259	1.00	0.8061	
80 1,1,2-Trichloroethane	97	10.237	10.244	-0.007	90	50479	1.00	0.9713	
81 Tetrachloroethene	166	10.335	10.329	0.006	97	84114	1.00	0.9556	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	88	83021	1.00	0.9549	
83 2-Hexanone	43	10.457	10.457	0.000	97	244726	10.0	8.77	
85 Chlorodibromomethane	129	10.615	10.616	-0.001	89	59451	1.00	0.9307	
86 Ethylene Dibromide	107	10.731	10.731	0.000	100	45285	1.00	0.9414	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1797925	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	98	95246	1.00	0.9226	
90 Chlorobenzene	112	11.182	11.183	-0.001	95	198736	1.00	0.9608	
S 89 Xylenes, Total	106				0			2.87	
91 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	94	67159	1.00	0.9501	
92 Ethylbenzene	91	11.268	11.268	0.000	98	323292	1.00	0.9414	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	0	256474	2.00	1.92	
94 o-Xylene	106	11.713	11.713	0.000	96	120803	1.00	0.9488	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.731	11.731	0.000	94	184166	1.00	0.9144	
96 Bromoform	173	11.890	11.890	0.000	97	35053	1.00	0.9184	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	313759	1.00	0.9487	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	93	856156	10.0	10.0	
101 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	93	63270	1.00	0.9750	
102 Bromobenzene	156	12.274	12.274	0.000	96	80617	1.00	0.9640	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	94	116292	10.0	8.52	
104 1,2,3-Trichloropropane	110	12.304	12.298	0.006	79	16230	1.00	0.9472	
105 N-Propylbenzene	91	12.341	12.341	0.000	99	387529	1.00	0.9669	
106 2-Chlorotoluene	126	12.420	12.414	0.006	97	80346	1.00	0.9721	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	265461	1.00	0.9467	
108 4-Chlorotoluene	126	12.511	12.512	-0.001	97	81938	1.00	0.9716	
109 tert-Butylbenzene	134	12.719	12.713	0.006	93	60273	1.00	0.9603	
110 Pentachloroethane	167	12.749	12.749	0.000	92	46827	1.00	0.9214	
111 1,2,4-Trimethylbenzene	105	12.761	12.761	0.000	96	265002	1.00	0.9512	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	349604	1.00	0.9647	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	97	154584	1.00	0.9565	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	288357	1.00	0.9445	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1008085	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	96	162933	1.00	0.9761	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	96	122728	1.00	0.9556	
118 Benzyl chloride	126	13.133	13.133	0.000	98	20752	1.00	0.8521	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	137242	1.00	0.9426	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	98	144871	1.00	0.9646	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	87	8558	1.00	0.9243	
123 1,3,5-Trichlorobenzene	180	13.987	13.981	0.006	98	102232	1.00	0.9278	
124 1,2,4-Trichlorobenzene	180	14.407	14.408	-0.001	94	83328	1.00	0.9383	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	97	38921	1.00	0.9277	
126 Naphthalene	128	14.590	14.584	0.006	97	141675	1.00	0.8644	
127 1,2,3-Trichlorobenzene	180	14.731	14.725	0.006	95	73426	1.00	0.9322	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00049	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

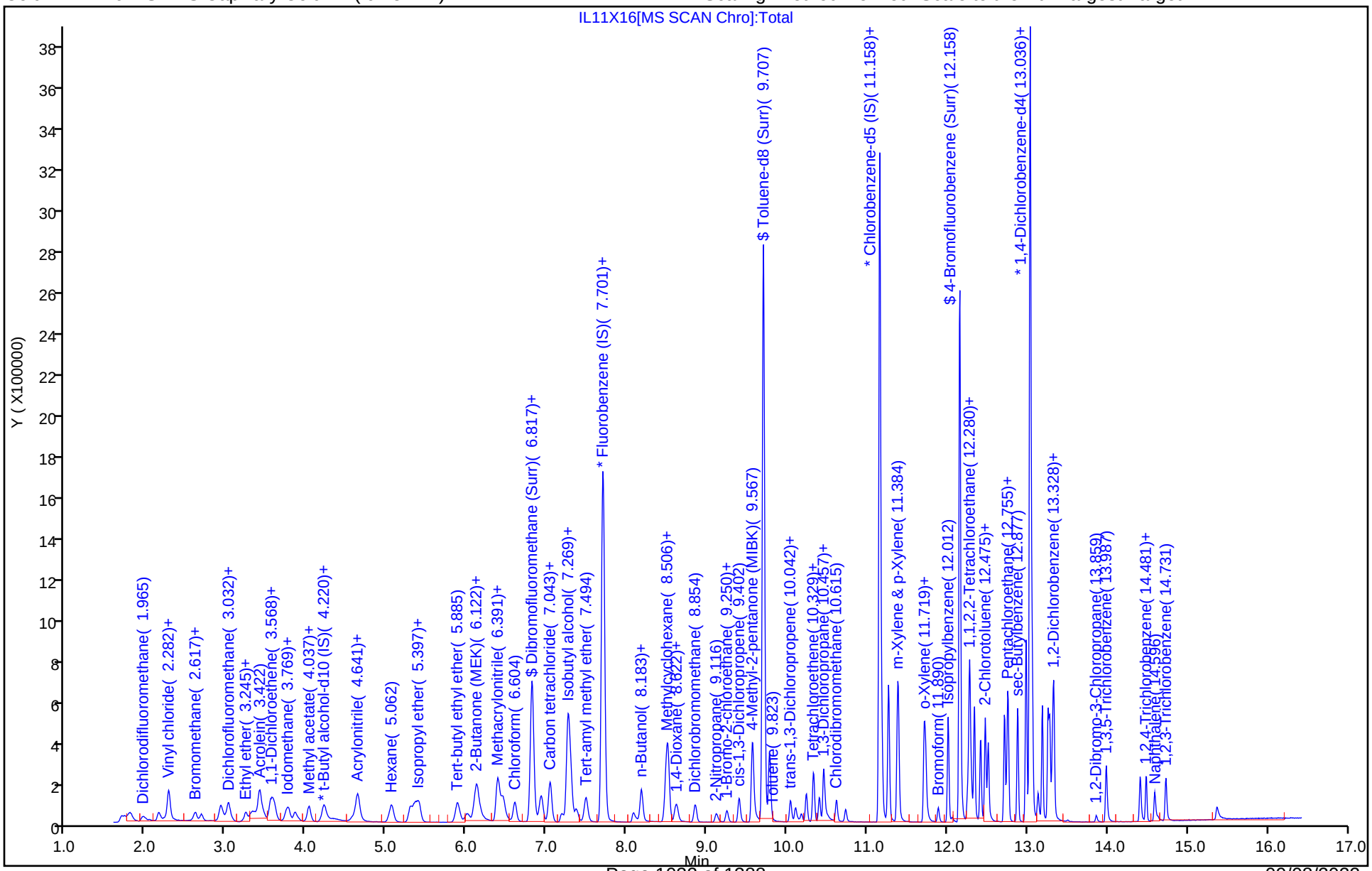
Report Date: 14-Jul-2022 14:51:38 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X16.D

Injection Date:	11-Jul-2022 17:00:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	IC std3			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

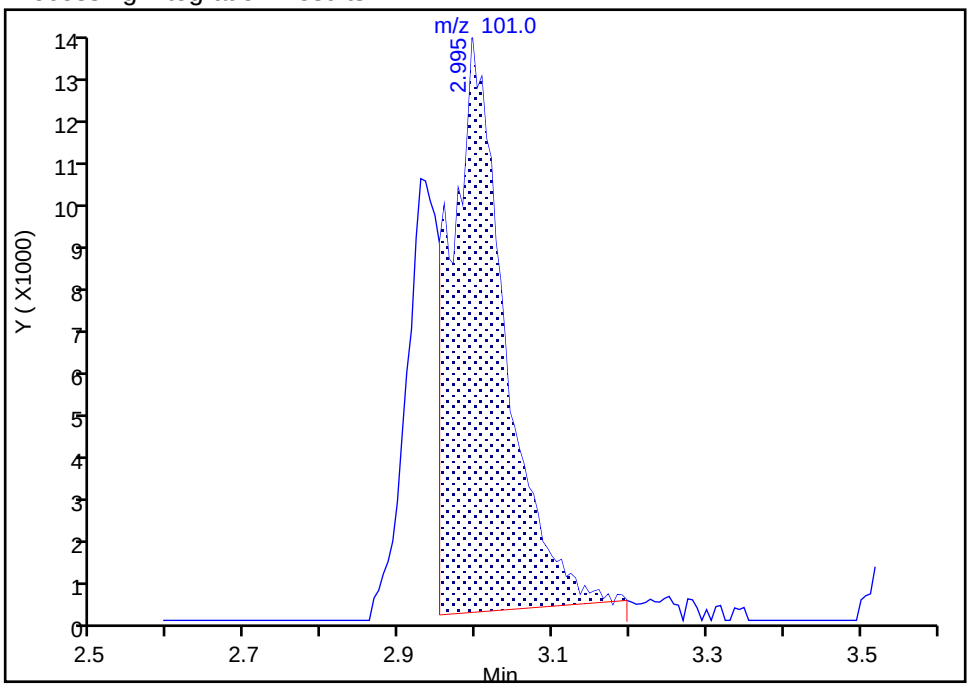
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X16.D				
Injection Date:	11-Jul-2022 17:00:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

10 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

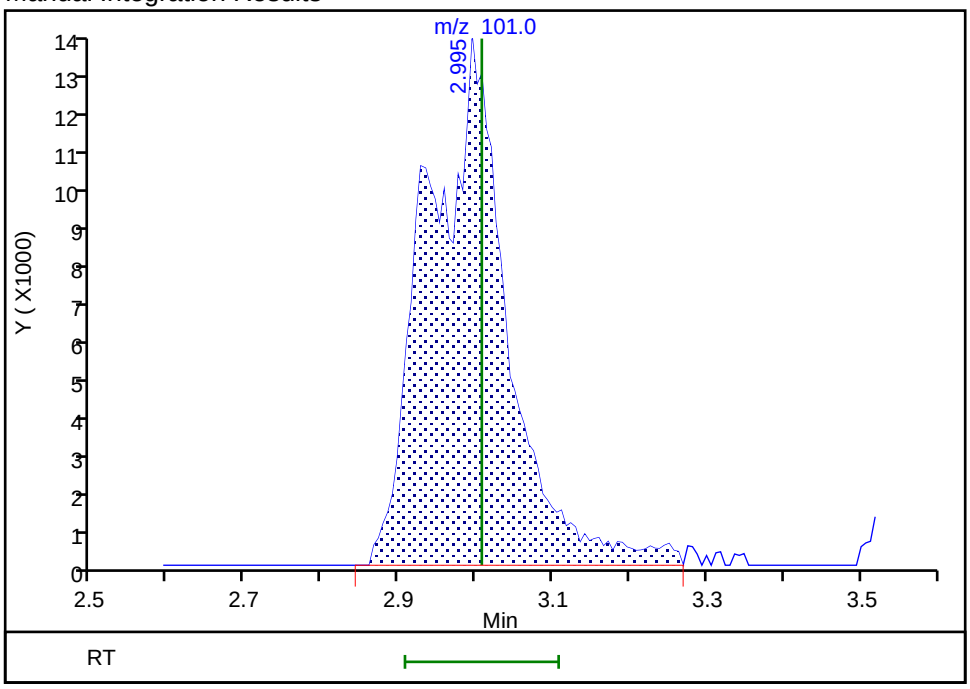
Processing Integration Results

RT: 2.99
Area: 66291
Amount: 0.664531
Amount Units: ug/l



Manual Integration Results

RT: 2.99
Area: 99512
Amount: 0.952250
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:41:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

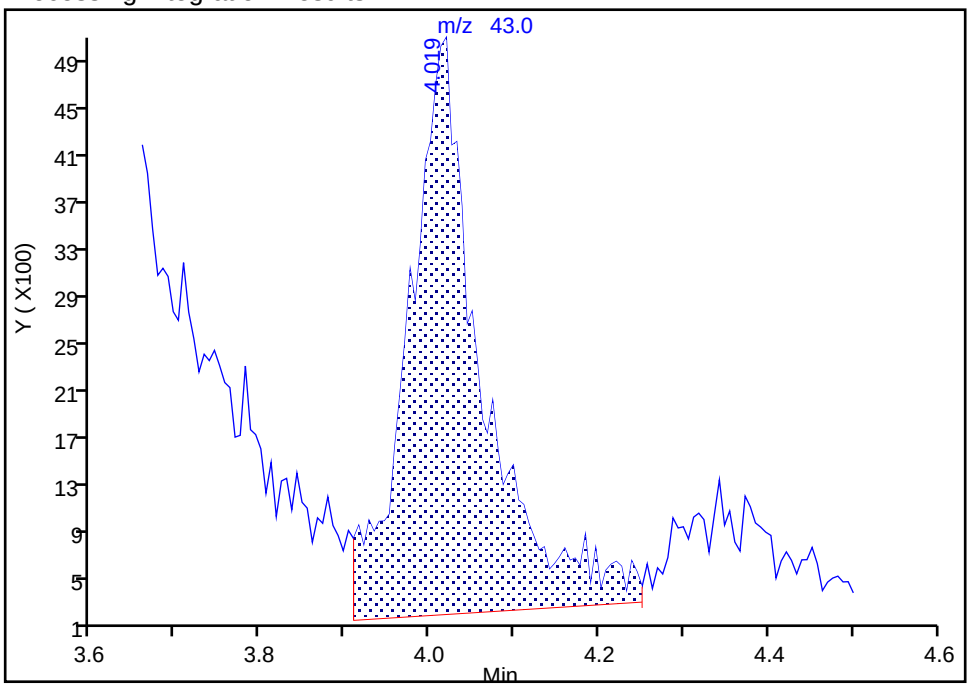
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X16.D				
Injection Date:	11-Jul-2022 17:00:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

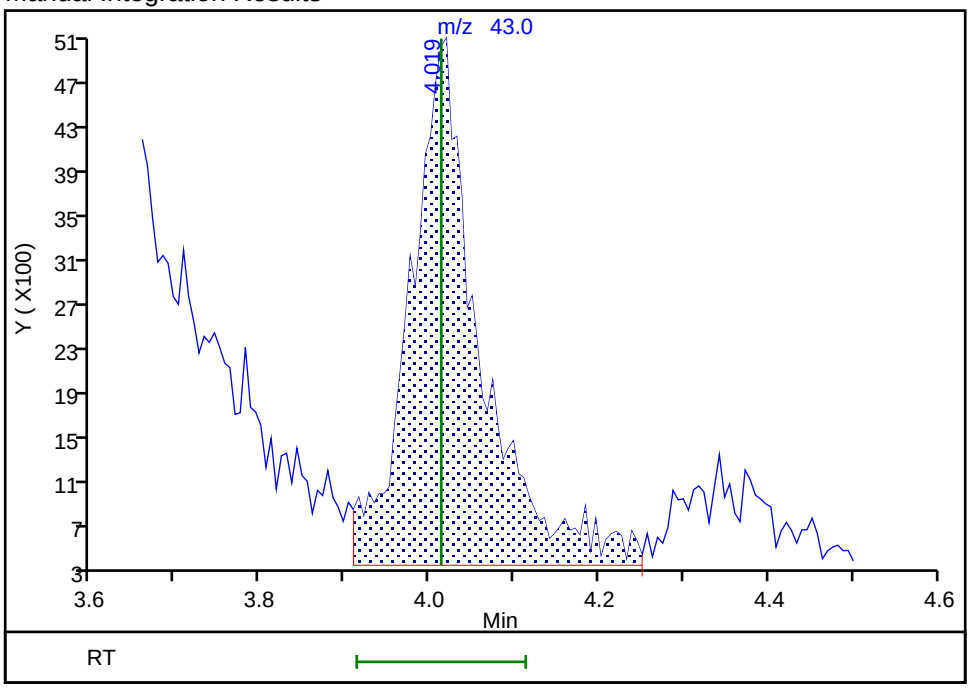
Processing Integration Results

RT: 4.02
Area: 29242
Amount: 1.101673
Amount Units: ug/l



Manual Integration Results

RT: 4.02
Area: 26844
Amount: 1.063163
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:42:21
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

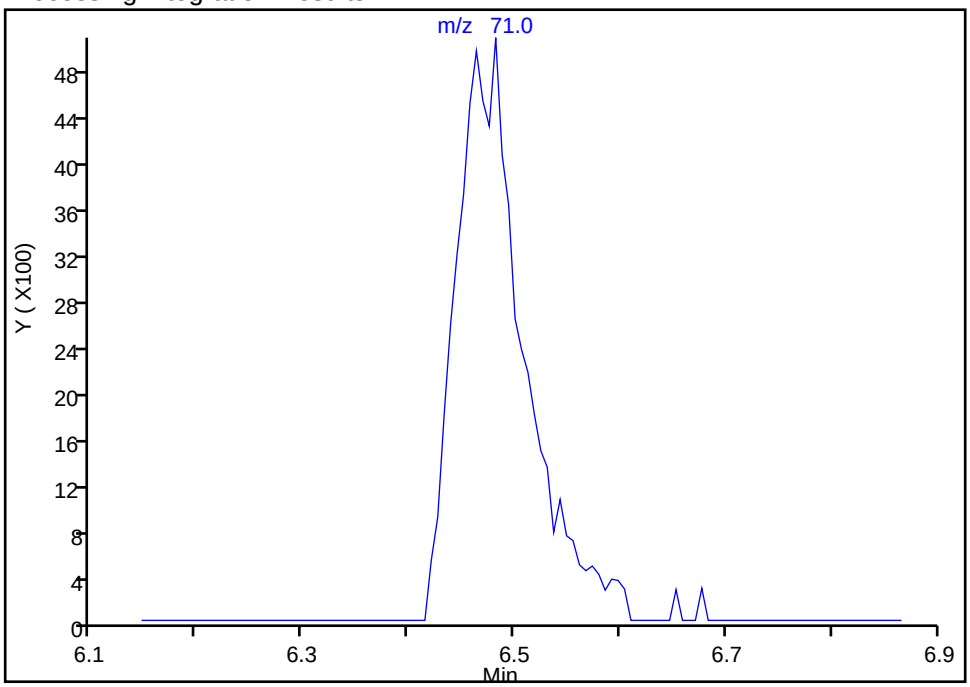
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X16.D				
Injection Date:	11-Jul-2022 17:00:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

44 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

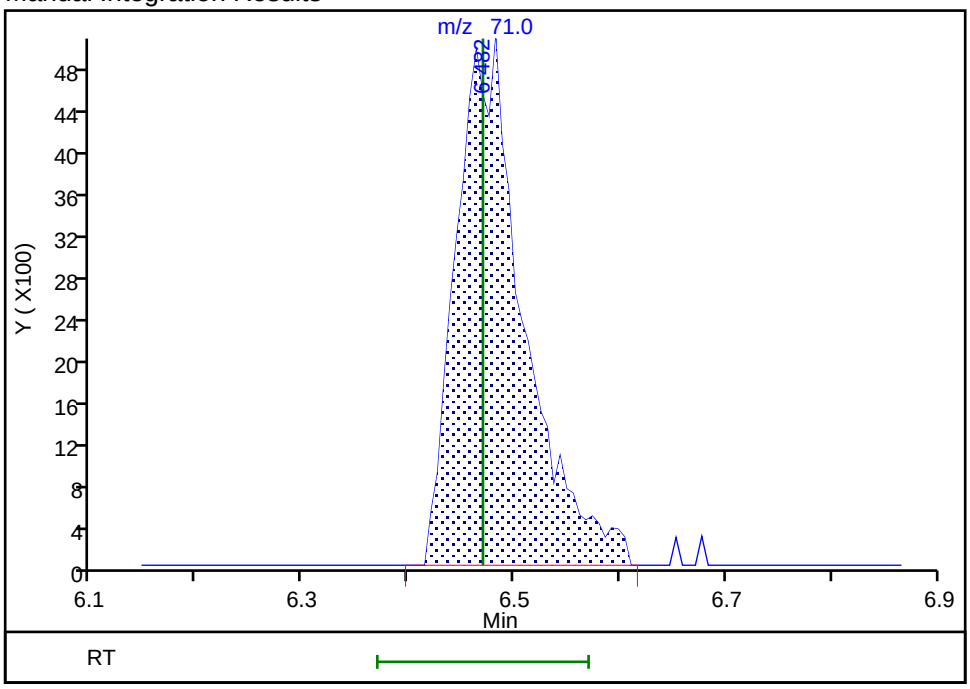
Not Detected
Expected RT: 6.47

Processing Integration Results



Manual Integration Results

RT: 6.48
Area: 22551
Amount: 4.893670
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:42:34
Audit Action: Assigned Compound ID Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X17.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Jul-2022 17:22:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0061506-017
Misc. Info.: IC STD2
Operator ID: kas02648 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 14-Jul-2022 14:51:43 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UKAD Date: 12-Jul-2022 12:46:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.977	1.959	0.018	99	31575	0.5000	0.4601	
4 Chloromethane	50	2.166	2.160	0.006	99	37473	0.5000	0.4808	
5 Vinyl chloride	62	2.288	2.276	0.012	72	36782	0.5000	0.4793	
6 Butadiene	39	2.300	2.288	0.012	93	45528	0.5000	0.5242	
7 Bromomethane	94	2.623	2.617	0.006	90	26319	0.5000	0.4919	
8 Chloroethane	64	2.702	2.696	0.006	99	22719	0.5000	0.5035	
9 Dichlorofluoromethane	67	2.946	2.934	0.012	97	51734	0.5000	0.4947	
10 Trichlorofluoromethane	101	3.001	3.007	-0.006	89	47896	0.5000	0.4729	
11 Ethyl ether	59	3.251	3.245	0.006	91	23094	0.5001	0.4724	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.343	0.006	91	36911	0.5000	0.4809	
13 Acrolein	56	3.428	3.422	0.006	100	184648	25.0	25.2	
14 1,1-Dichloroethene	96	3.556	3.556	0.000	98	29217	0.5000	0.5172	
15 Acetone	43	3.605	3.593	0.012	91	49368	5.00	5.70	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.611	3.599	0.012	89	28541	0.5000	0.4998	
17 Iodomethane	142	3.763	3.763	0.000	99	51899	0.5000	0.5224	
18 Ethyl bromide	108	3.800	3.782	0.018	98	24174	0.4999	0.4735	M
19 Carbon disulfide	76	3.873	3.861	0.012	99	74621	0.5000	0.5281	
21 Methyl acetate	43	4.031	4.013	0.018	27	13802	0.5000	0.5424	M
22 3-Chloro-1-propene	41	4.037	4.038	-0.001	92	42661	0.5000	0.5163	
23 Methylene Chloride	84	4.239	4.220	0.019	90	31812	0.5000	0.5140	
* 24 t-Butyl alcohol-d10 (IS)	65	4.245	4.239	0.006	0	156891	50.0	50.0	
25 2-Methyl-2-propanol	59	4.379	4.361	0.018	98	27212	10.0	10.1	
26 Acrylonitrile	53	4.592	4.568	0.024	47	15249	1.25	1.26	
27 Methyl tert-butyl ether	73	4.647	4.629	0.018	95	71057	0.5000	0.5010	
28 trans-1,2-Dichloroethene	96	4.659	4.641	0.018	99	32165	0.5000	0.5134	
29 Hexane	57	5.080	5.074	0.006	92	42348	0.5000	0.4835	
31 1,1-Dichloroethane	63	5.299	5.300	-0.001	96	59012	0.5000	0.5138	
32 Isopropyl ether	45	5.366	5.354	0.012	93	87856	0.5000	0.4973	
33 2-Chloro-1,3-butadiene	53	5.421	5.409	0.012	90	40279	0.5000	0.4794	
34 Tert-butyl ethyl ether	59	5.891	5.897	-0.006	96	80632	0.5000	0.4924	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.110	6.098	0.012	100	79936	5.00	4.97	
37 cis-1,2-Dichloroethene	96	6.135	6.129	0.006	80	36356	0.5000	0.5185	
38 2,2-Dichloropropane	77	6.147	6.135	0.012	84	48210	0.5000	0.5177	
S 35 1,2-Dichloroethene, Total	100				0			1.03	
40 Propionitrile	54	6.196	6.183	0.013	98	47750	10.0	10.2	
42 Methacrylonitrile	67	6.409	6.391	0.018	90	80308	5.00	4.79	
43 Chlorobromomethane	128	6.464	6.458	0.006	89	16573	0.5000	0.5214	
44 Tetrahydrofuran	71	6.482	6.470	0.012	79	11179	2.50	2.41	
45 Chloroform	83	6.610	6.610	0.000	93	61005	0.5000	0.5296	
$ 46 Dibromofluoromethane (Surr)	113	6.823	6.818	0.005	94	567219	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.836	6.836	0.000	98	52923	0.5000	0.5133	
48 Cyclohexane	56	6.939	6.933	0.006	90	50021	0.5000	0.4844	
51 1,1-Dichloropropene	75	7.043	7.043	0.000	96	45209	0.5000	0.5044	
50 Carbon tetrachloride	117	7.049	7.043	0.006	88	47141	0.5000	0.5119	
52 Isobutyl alcohol	41	7.201	7.195	0.006	94	28893	25.0	27.3	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.275	0.000	0	115685	10.0	10.1	
54 Benzene	78	7.311	7.305	0.006	93	139335	0.5000	0.5164	
56 1,2-Dichloroethane	62	7.384	7.372	0.012	97	37483	0.5000	0.5211	
57 Tert-amyl methyl ether	73	7.500	7.494	0.006	98	75544	0.5000	0.4861	
* 58 Fluorobenzene (IS)	96	7.707	7.701	0.006	99	2227997	10.0	10.0	
59 n-Heptane	43	7.726	7.720	0.006	48	49321	0.5000	0.5111	
60 n-Butanol	56	8.104	8.073	0.031	90	32950	43.8	33.9	
61 Trichloroethene	95	8.189	8.183	0.006	97	36438	0.5000	0.5075	
62 Methylcyclohexane	83	8.494	8.494	0.000	93	55796	0.5000	0.4713	
63 1,2-Dichloropropane	63	8.512	8.512	0.000	76	36304	0.5000	0.5211	
64 Methyl methacrylate	69	8.622	8.598	0.024	86	11808	0.5000	0.3912	
65 1,4-Dioxane	88	8.610	8.598	0.012	39	4327	25.0	20.1	M
66 Dibromomethane	93	8.628	8.622	0.006	95	17273	0.5000	0.5177	
68 Dichlorobromomethane	83	8.860	8.854	0.006	99	42424	0.5000	0.5134	
69 2-Nitropropane	41	9.122	9.122	0.000	97	22492	2.50	2.52	
72 1-Bromo-2-chloroethane	63	9.256	9.250	0.006	98	31950	0.5000	0.4493	
73 cis-1,3-Dichloropropene	75	9.408	9.402	0.006	97	46615	0.5000	0.4709	
74 4-Methyl-2-pentanone (MIBK)	43	9.573	9.567	0.006	97	180443	5.00	4.64	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2261581	10.0	10.0	
76 Toluene	92	9.786	9.780	0.006	98	92090	0.5000	0.5163	
78 trans-1,3-Dichloropropene	75	10.048	10.042	0.006	91	38412	0.5000	0.4720	
S 77 1,3-Dichloropropene, Total	100				0			0.9428	
79 Ethyl methacrylate	69	10.116	10.103	0.013	89	25289	0.5000	0.4111	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	91	25354	0.5000	0.5043	
81 Tetrachloroethene	166	10.335	10.329	0.006	98	43830	0.5000	0.5147	
82 1,3-Dichloropropane	76	10.408	10.402	0.006	89	42281	0.5000	0.5027	
83 2-Hexanone	43	10.463	10.457	0.006	98	111319	5.00	3.96	M
85 Chlorodibromomethane	129	10.622	10.616	0.006	90	30599	0.5000	0.4952	
86 Ethylene Dibromide	107	10.737	10.731	0.006	96	24059	0.5000	0.5170	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1739265	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	96	49415	0.5000	0.4948	
90 Chlorobenzene	112	11.182	11.183	-0.001	96	103635	0.5000	0.5179	
S 89 Xylenes, Total	106				0			1.45	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.262	0.006	93	34965	0.5000	0.5113	
92 Ethylbenzene	91	11.274	11.268	0.006	98	164082	0.5000	0.4939	
93 m-Xylene & p-Xylene	106	11.390	11.384	0.006	0	123961	1.00	0.9598	
94 o-Xylene	106	11.713	11.713	0.000	96	60212	0.5000	0.4889	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.737	11.731	0.006	94	89009	0.5000	0.4568	
96 Bromoform	173	11.890	11.890	0.000	96	17723	0.5000	0.4800	
97 Isopropylbenzene	105	12.012	12.012	0.000	96	153734	0.5000	0.4805	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	93	819340	10.0	9.90	
101 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	93	31520	0.5000	0.5028	
102 Bromobenzene	156	12.274	12.274	0.000	96	40498	0.5000	0.5013	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.280	0.006	92	55740	5.00	4.05	
104 1,2,3-Trichloropropane	110	12.304	12.298	0.006	78	8575	0.5000	0.5180	
105 N-Propylbenzene	91	12.341	12.341	0.000	99	187884	0.5000	0.4853	
106 2-Chlorotoluene	126	12.420	12.414	0.006	97	39747	0.5000	0.4978	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	133210	0.5000	0.4918	
108 4-Chlorotoluene	126	12.517	12.512	0.005	97	40578	0.5000	0.4981	
109 tert-Butylbenzene	134	12.719	12.713	0.006	93	29717	0.5000	0.4901	
110 Pentachloroethane	167	12.749	12.749	0.000	79	22024	0.5000	0.4486	
111 1,2,4-Trimethylbenzene	105	12.761	12.761	0.000	97	128411	0.5000	0.4771	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	172681	0.5000	0.4933	
113 1,3-Dichlorobenzene	146	12.987	12.981	0.006	98	79032	0.5000	0.5062	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	138944	0.5000	0.4711	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	973807	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	96	84028	0.5000	0.5211	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	95	64512	0.5000	0.5200	
118 Benzyl chloride	126	13.139	13.133	0.006	99	9730	0.5000	0.4136	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	70919	0.5000	0.5042	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	98	76227	0.5000	0.5254	
122 1,2-Dibromo-3-Chloropropane	155	13.871	13.859	0.012	84	3887	0.5000	0.4346	
123 1,3,5-Trichlorobenzene	180	13.987	13.981	0.006	97	51424	0.5000	0.4831	
124 1,2,4-Trichlorobenzene	180	14.413	14.408	0.005	94	37697	0.5000	0.4394	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	97	20308	0.5000	0.5011	
126 Naphthalene	128	14.596	14.584	0.012	97	71718	0.5000	0.4530	
127 1,2,3-Trichlorobenzene	180	14.730	14.725	0.006	95	36090	0.5000	0.4743	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00049	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

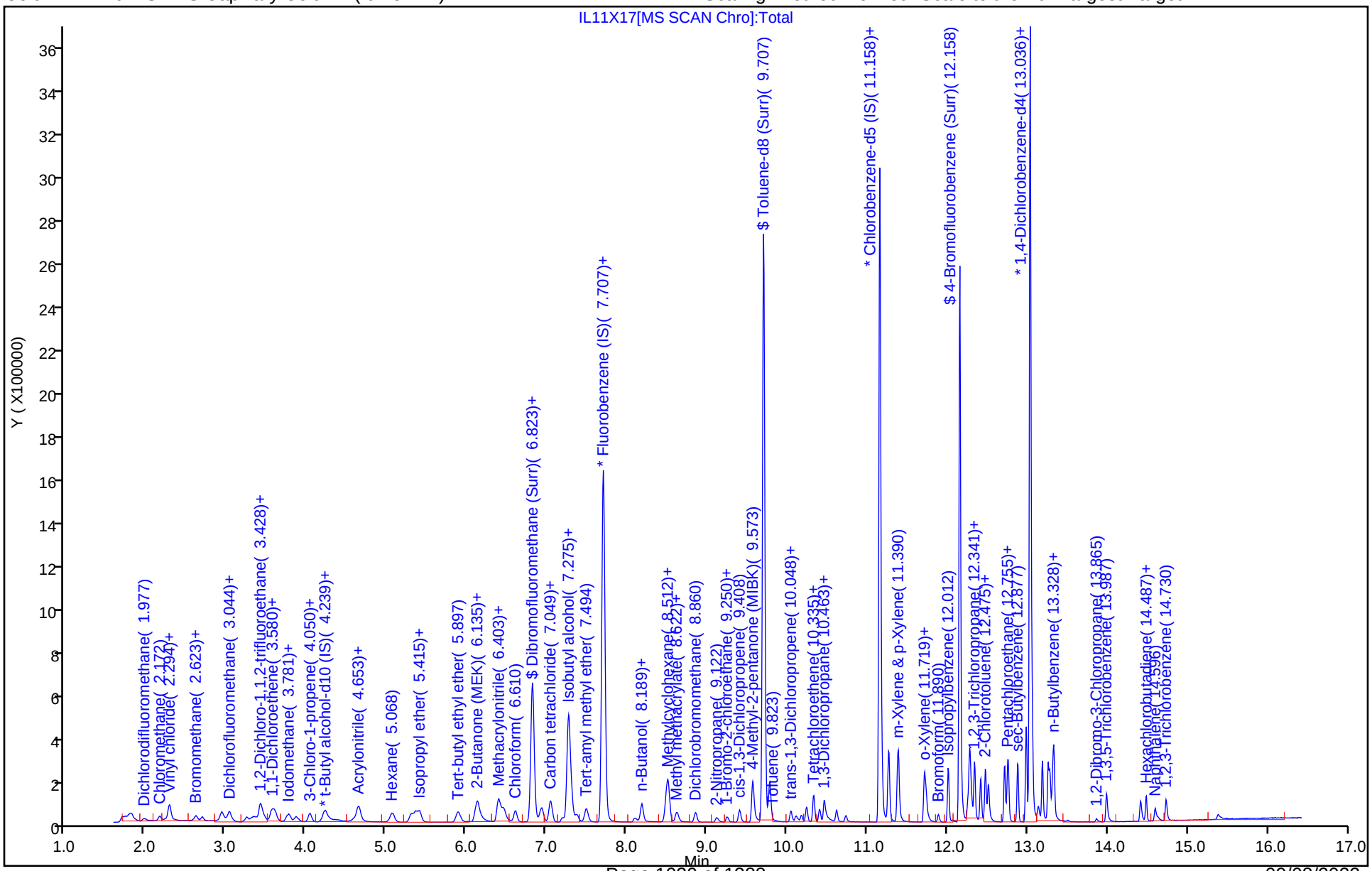
Report Date: 14-Jul-2022 14:51:44 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X17.D

Injection Date:	11-Jul-2022 17:22:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	IC std2			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

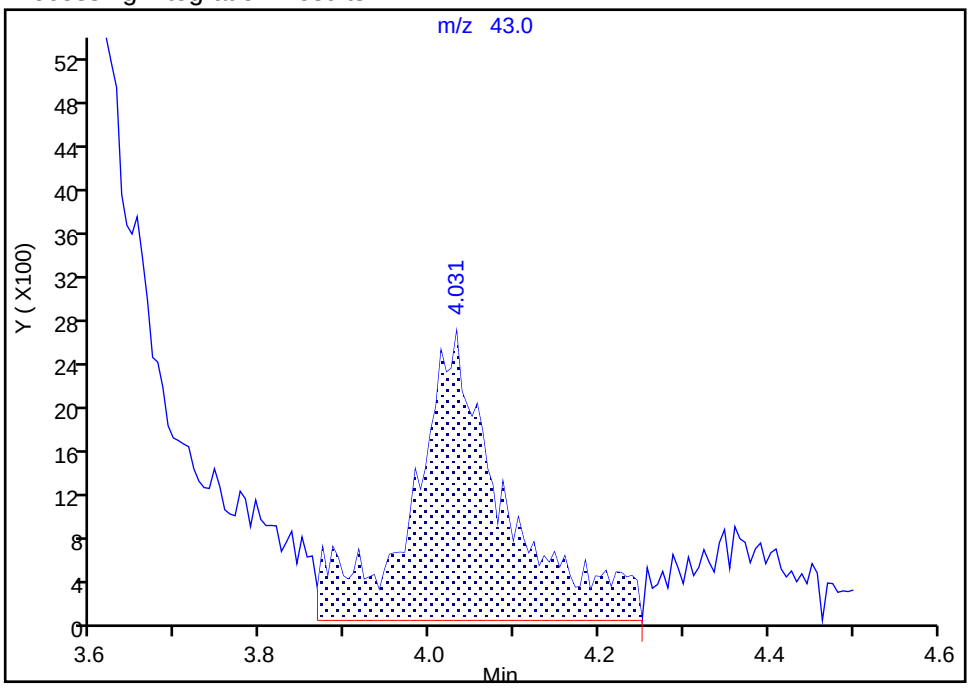
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X17.D				
Injection Date:	11-Jul-2022 17:22:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

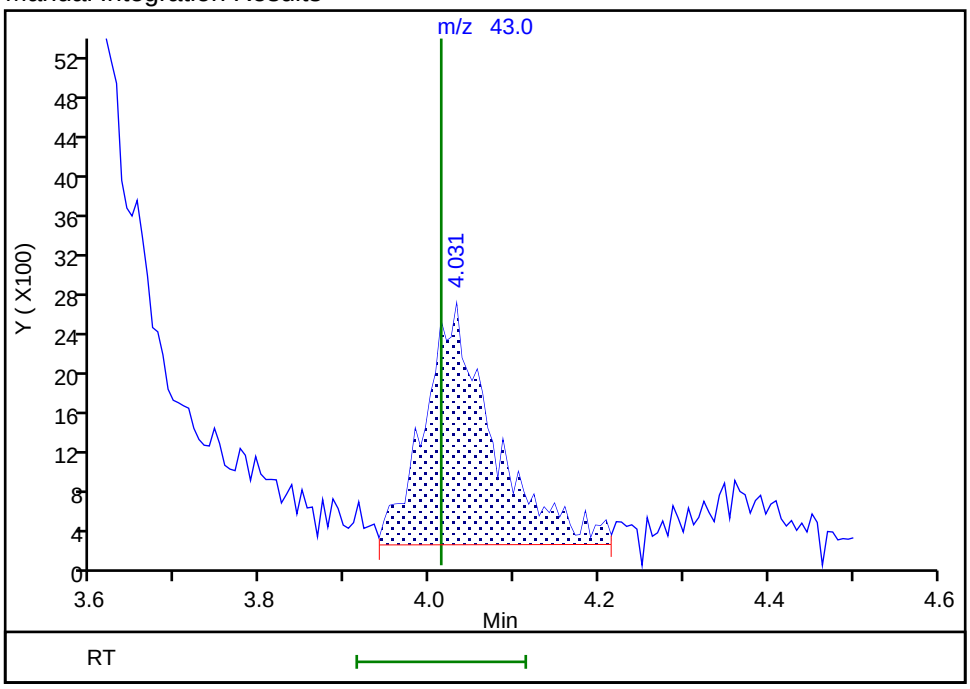
Processing Integration Results

RT: 4.03
Area: 20122
Amount: 0.739654
Amount Units: ug/l



Manual Integration Results

RT: 4.03
Area: 13802
Amount: 0.542377
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:44:01
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

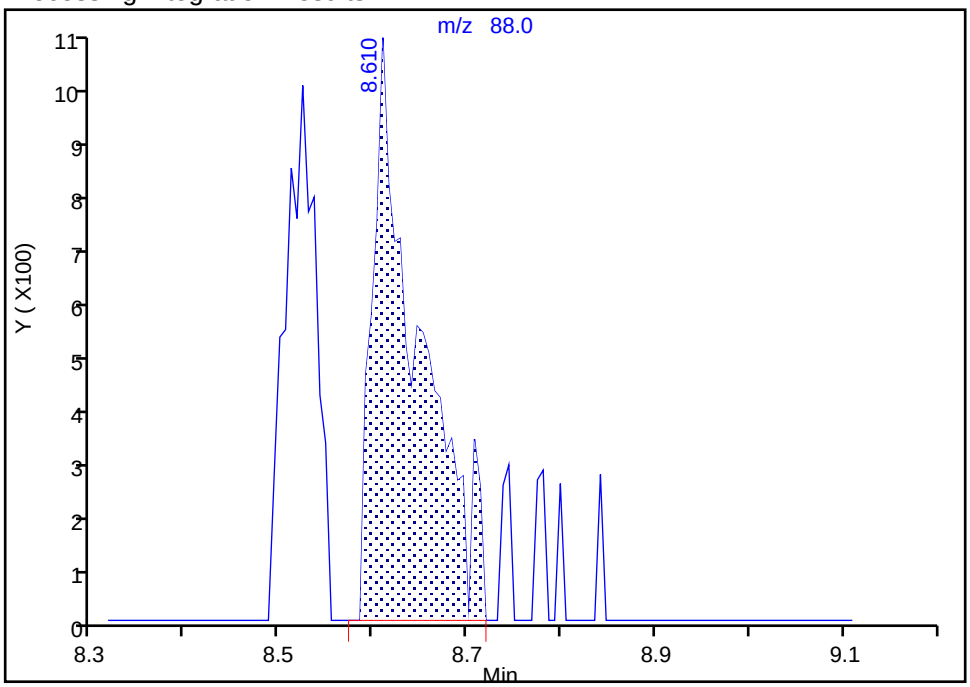
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X17.D				
Injection Date:	11-Jul-2022 17:22:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

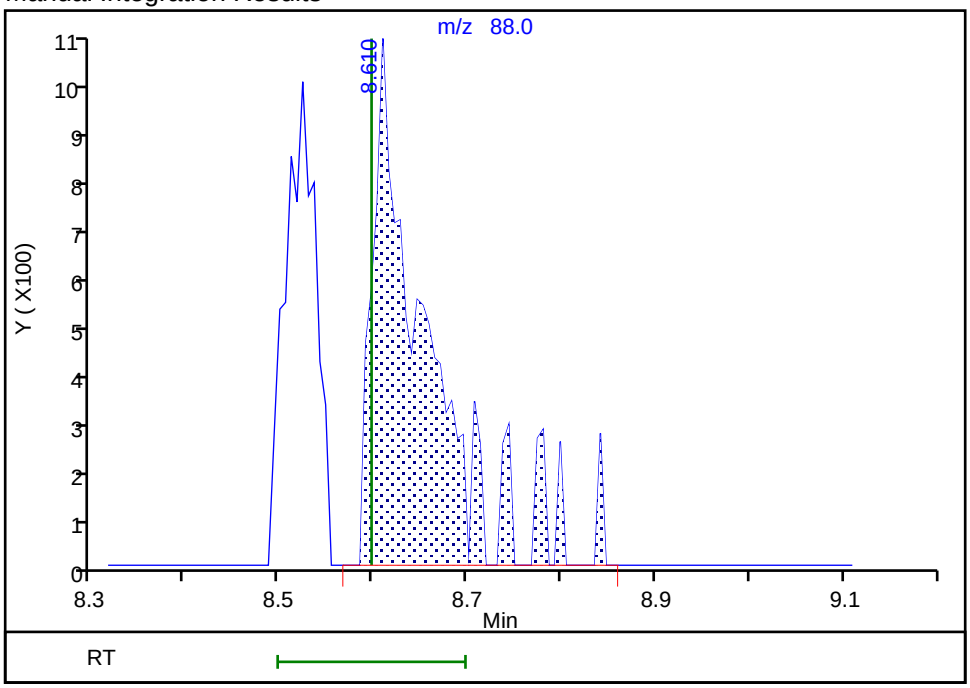
Processing Integration Results

RT: 8.61
Area: 3738
Amount: 17.674712
Amount Units: ug/l



Manual Integration Results

RT: 8.61
Area: 4327
Amount: 20.086785
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:44:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

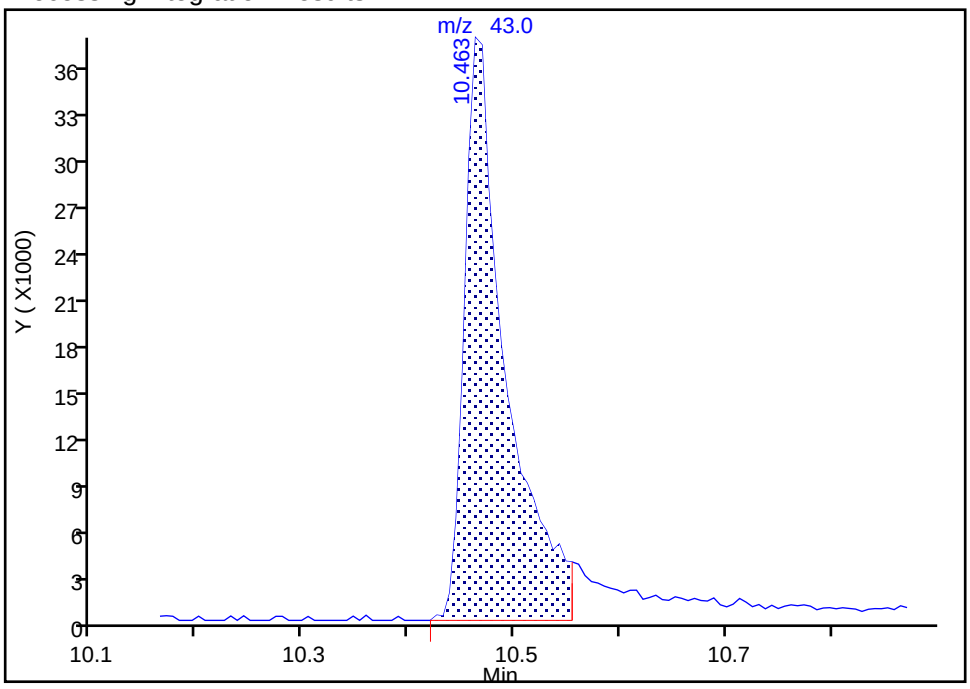
Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X17.D
Injection Date: 11-Jul-2022 17:22:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

83 2-Hexanone, CAS: 591-78-6

Signal: 1

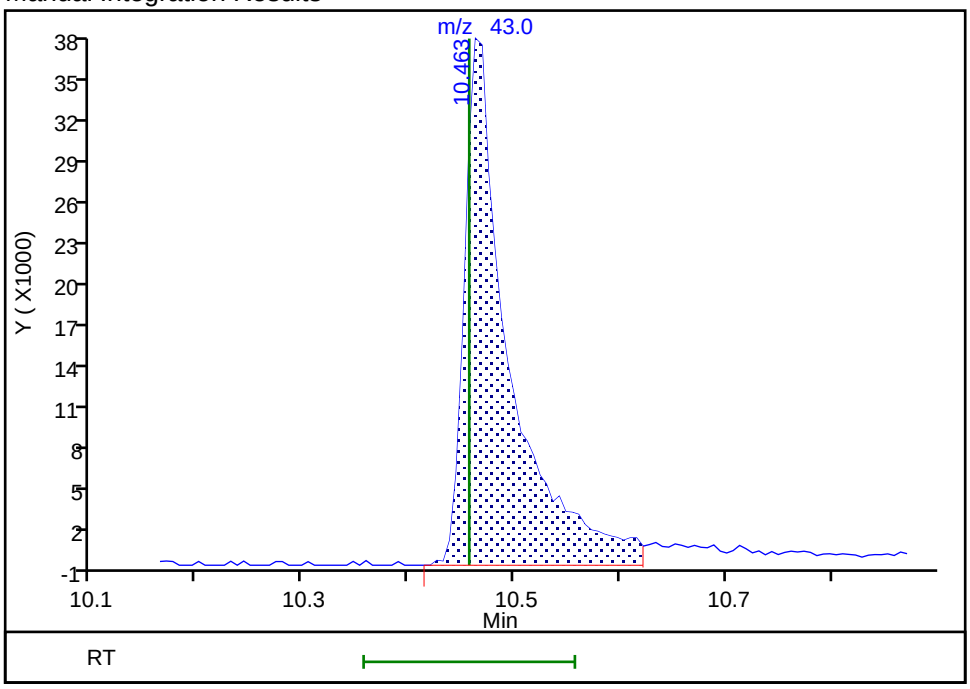
Processing Integration Results

RT: 10.46
Area: 102296
Amount: 4.716899
Amount Units: ug/l



Manual Integration Results

RT: 10.46
Area: 111319
Amount: 3.959254
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:57:12
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Jul-2022 17:43:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0061506-018
Misc. Info.: IC STD1
Operator ID: kas02648 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 14-Jul-2022 14:51:49 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UKAD Date: 12-Jul-2022 12:48:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.971	1.959	0.012	97	12721	0.2000	0.1852	
4 Chloromethane	50	2.166	2.160	0.006	99	16839	0.2000	0.2158	
5 Vinyl chloride	62	2.276	2.276	0.000	69	14610	0.2000	0.1902	
6 Butadiene	39	2.288	2.288	0.000	96	21573	0.2000	0.2481	
7 Bromomethane	94	2.611	2.617	-0.006	91	11770	0.2000	0.2197	
8 Chloroethane	64	2.690	2.696	-0.006	98	9040	0.2000	0.2001	
9 Dichlorofluoromethane	67	2.940	2.934	0.006	97	21670	0.2000	0.2070	
10 Trichlorofluoromethane	101	3.019	3.007	0.012	52	18571	0.2000	0.1832	
11 Ethyl ether	59	3.257	3.245	0.012	89	9589	0.2001	0.1959	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.330	3.343	-0.013	93	15332	0.2000	0.1995	
13 Acrolein	56	3.428	3.422	0.006	98	69223	10.0	9.19	
14 1,1-Dichloroethene	96	3.562	3.556	0.006	97	10808	0.2000	0.1911	
15 Acetone	43	3.617	3.593	0.024	99	16221	2.00	1.82	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.605	3.599	0.006	87	11022	0.2000	0.1928	
17 Iodomethane	142	3.757	3.763	-0.006	98	19517	0.2000	0.1962	
18 Ethyl bromide	108	3.788	3.782	0.006	95	9956	0.2000	0.1948	
19 Carbon disulfide	76	3.867	3.861	0.006	97	28892	0.2000	0.2043	
21 Methyl acetate	43	4.019	4.013	0.006	33	5189	0.2000	0.1984	
22 3-Chloro-1-propene	41	4.037	4.038	-0.001	88	15414	0.2000	0.1863	
23 Methylene Chloride	84	4.226	4.220	0.006	66	12300	0.2000	0.1985	
* 24 t-Butyl alcohol-d10 (IS)	65	4.245	4.239	0.006	0	161218	50.0	50.0	
25 2-Methyl-2-propanol	59	4.391	4.361	0.030	30	8591	4.00	3.10	
26 Acrylonitrile	53	4.592	4.568	0.024	42	4673	0.5000	0.3749	
27 Methyl tert-butyl ether	73	4.641	4.629	0.012	85	24960	0.2000	0.1758	
28 trans-1,2-Dichloroethene	96	4.653	4.641	0.012	97	12404	0.2000	0.1978	
29 Hexane	57	5.068	5.074	-0.006	92	15545	0.2000	0.1773	
31 1,1-Dichloroethane	63	5.306	5.300	0.006	95	22119	0.2000	0.1924	
32 Isopropyl ether	45	5.367	5.354	0.012	91	31407	0.2000	0.1776	
33 2-Chloro-1,3-butadiene	53	5.415	5.409	0.006	89	14493	0.2000	0.1723	
34 Tert-butyl ethyl ether	59	5.897	5.897	0.000	96	28198	0.2000	0.1720	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.116	6.098	0.018	95	26828	2.00	1.62	
37 cis-1,2-Dichloroethene	96	6.129	6.129	0.000	81	13480	0.2000	0.1920	
38 2,2-Dichloropropane	77	6.135	6.135	0.000	81	17747	0.2000	0.1904	
S 35 1,2-Dichloroethene, Total	100				0			0.3898	
40 Propionitrile	54	6.202	6.183	0.019	96	14896	4.00	3.11	
42 Methacrylonitrile	67	6.409	6.391	0.018	89	28088	2.00	1.63	
43 Chlorobromomethane	128	6.458	6.458	0.000	86	6009	0.2000	0.1888	
44 Tetrahydrofuran	71	6.476	6.470	0.006	68	3337	1.00	0.6992	a
45 Chloroform	83	6.610	6.610	0.000	92	22266	0.2000	0.1931	
$ 46 Dibromofluoromethane (Surr)	113	6.824	6.818	0.006	94	569168	10.0	10.2	
47 1,1,1-Trichloroethane	97	6.836	6.836	0.000	36	20111	0.2000	0.1948	
48 Cyclohexane	56	6.927	6.933	-0.006	88	17589	0.2000	0.1701	
51 1,1-Dichloropropene	75	7.055	7.043	0.012	94	16108	0.2000	0.1795	
50 Carbon tetrachloride	117	7.043	7.043	0.000	91	17184	0.2000	0.1864	
52 Isobutyl alcohol	41	7.208	7.195	0.013	46	6630	10.0	6.10	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.275	-0.006	0	116789	10.0	10.2	
54 Benzene	78	7.311	7.305	0.006	91	51289	0.2000	0.1899	
56 1,2-Dichloroethane	62	7.378	7.372	0.006	97	14390	0.2000	0.1998	
57 Tert-amyl methyl ether	73	7.494	7.494	0.000	96	26483	0.2000	0.1702	
* 58 Fluorobenzene (IS)	96	7.708	7.701	0.007	99	2230453	10.0	10.0	
59 n-Heptane	43	7.720	7.720	0.000	36	18720	0.2000	0.1938	
60 n-Butanol	56	8.134	8.073	0.061	58	8831	17.5	8.85	M
61 Trichloroethene	95	8.189	8.183	0.006	97	13757	0.2000	0.1914	
62 Methylcyclohexane	83	8.494	8.494	0.000	93	20647	0.2000	0.1742	
63 1,2-Dichloropropane	63	8.512	8.512	0.000	76	12531	0.2000	0.1797	
64 Methyl methacrylate	69	8.622	8.598	0.024	58	3407	0.2000	0.1099	M
65 1,4-Dioxane	88	8.616	8.598	0.018	1	696	10.0	3.14	M
66 Dibromomethane	93	8.622	8.622	0.000	95	5984	0.2000	0.1791	
68 Dichlorobromomethane	83	8.854	8.854	0.000	98	15476	0.2000	0.1871	
69 2-Nitropropane	41	9.134	9.122	0.012	94	8246	1.00	0.9007	
72 1-Bromo-2-chloroethane	63	9.256	9.250	0.006	96	12905	0.2000	0.1813	
73 cis-1,3-Dichloropropene	75	9.414	9.402	0.012	97	16936	0.2000	0.1709	Ma
74 4-Methyl-2-pentanone (MIBK)	43	9.579	9.567	0.012	97	55482	2.00	1.39	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2240421	10.0	10.0	
76 Toluene	92	9.786	9.780	0.006	98	33710	0.2000	0.1904	
78 trans-1,3-Dichloropropene	75	10.055	10.042	0.013	92	13694	0.2000	0.1695	
S 77 1,3-Dichloropropene, Total	100				0			0.3404	
79 Ethyl methacrylate	69	10.128	10.103	0.025	88	7741	0.2000	0.1268	M
80 1,1,2-Trichloroethane	97	10.250	10.244	0.006	89	9398	0.2000	0.1883	
81 Tetrachloroethene	166	10.335	10.329	0.006	96	15791	0.2000	0.1868	
82 1,3-Dichloropropane	76	10.408	10.402	0.006	88	15498	0.2000	0.1857	
83 2-Hexanone	43	10.487	10.457	0.030	97	28416	2.00	0.9835	M
85 Chlorodibromomethane	129	10.622	10.616	0.006	89	10640	0.2000	0.1735	
86 Ethylene Dibromide	107	10.744	10.731	0.013	96	7628	0.2000	0.1652	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1726250	10.0	10.0	
88 1-Chlorohexane	91	11.170	11.164	0.006	71	18884	0.2000	0.1905	
90 Chlorobenzene	112	11.189	11.183	0.006	97	37416	0.2000	0.1884	
S 89 Xylenes, Total	106				0			0.4949	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.262	0.006	91	12612	0.2000	0.1858	
92 Ethylbenzene	91	11.274	11.268	0.006	98	59052	0.2000	0.1791	
93 m-Xylene & p-Xylene	106	11.390	11.384	0.006	0	42651	0.4000	0.3327	
94 o-Xylene	106	11.719	11.713	0.006	97	19824	0.2000	0.1622	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.749	11.731	0.018	94	28634	0.2000	0.1481	a
96 Bromoform	173	11.896	11.890	0.006	96	6141	0.2000	0.1676	
97 Isopropylbenzene	105	12.018	12.012	0.006	96	51863	0.2000	0.1633	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	94	806346	10.0	9.82	
101 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	92	11207	0.2000	0.1809	a
102 Bromobenzene	156	12.274	12.274	0.000	94	15066	0.2000	0.1887	
103 trans-1,4-Dichloro-2-butene	53	12.292	12.280	0.012	86	17450	2.00	1.23	
104 1,2,3-Trichloropropane	110	12.310	12.298	0.012	75	2754	0.2000	0.1684	
105 N-Propylbenzene	91	12.347	12.341	0.006	98	64364	0.2000	0.1682	
106 2-Chlorotoluene	126	12.420	12.414	0.006	97	14136	0.2000	0.1792	
107 1,3,5-Trimethylbenzene	105	12.481	12.475	0.006	93	44340	0.2000	0.1656	
108 4-Chlorotoluene	126	12.530	12.512	0.018	95	14269	0.2000	0.1772	
109 tert-Butylbenzene	134	12.719	12.713	0.006	92	9331	0.2000	0.1557	
110 Pentachloroethane	167	12.749	12.749	0.000	81	8561	0.2000	0.1765	
111 1,2,4-Trimethylbenzene	105	12.767	12.761	0.006	96	40429	0.2000	0.1520	
112 sec-Butylbenzene	105	12.883	12.877	0.006	94	57444	0.2000	0.1660	
113 1,3-Dichlorobenzene	146	12.987	12.981	0.006	97	27040	0.2000	0.1753	
114 4-Isopropyltoluene	119	12.993	12.987	0.006	97	46069	0.2000	0.1581	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	962398	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	91	28684	0.2000	0.1800	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	97	22752	0.2000	0.1856	
118 Benzyl chloride	126	13.152	13.133	0.019	96	2655	0.2000	0.1142	
119 n-Butylbenzene	92	13.286	13.280	0.006	96	18430	0.2000	0.1326	
120 1,2-Dichlorobenzene	146	13.322	13.316	0.006	97	25342	0.2000	0.1767	
122 1,2-Dibromo-3-Chloropropane	155	13.871	13.859	0.012	80	914	0.2000	0.1034	
123 1,3,5-Trichlorobenzene	180	13.999	13.981	0.018	96	19168	0.2000	0.1822	
124 1,2,4-Trichlorobenzene	180	14.432	14.408	0.024	92	13803	0.2000	0.1628	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	94	8991	0.2000	0.2245	
126 Naphthalene	128	14.621	14.584	0.037	96	21967	0.2000	0.1404	
127 1,2,3-Trichlorobenzene	180	14.743	14.725	0.019	94	12630	0.2000	0.1680	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00049	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

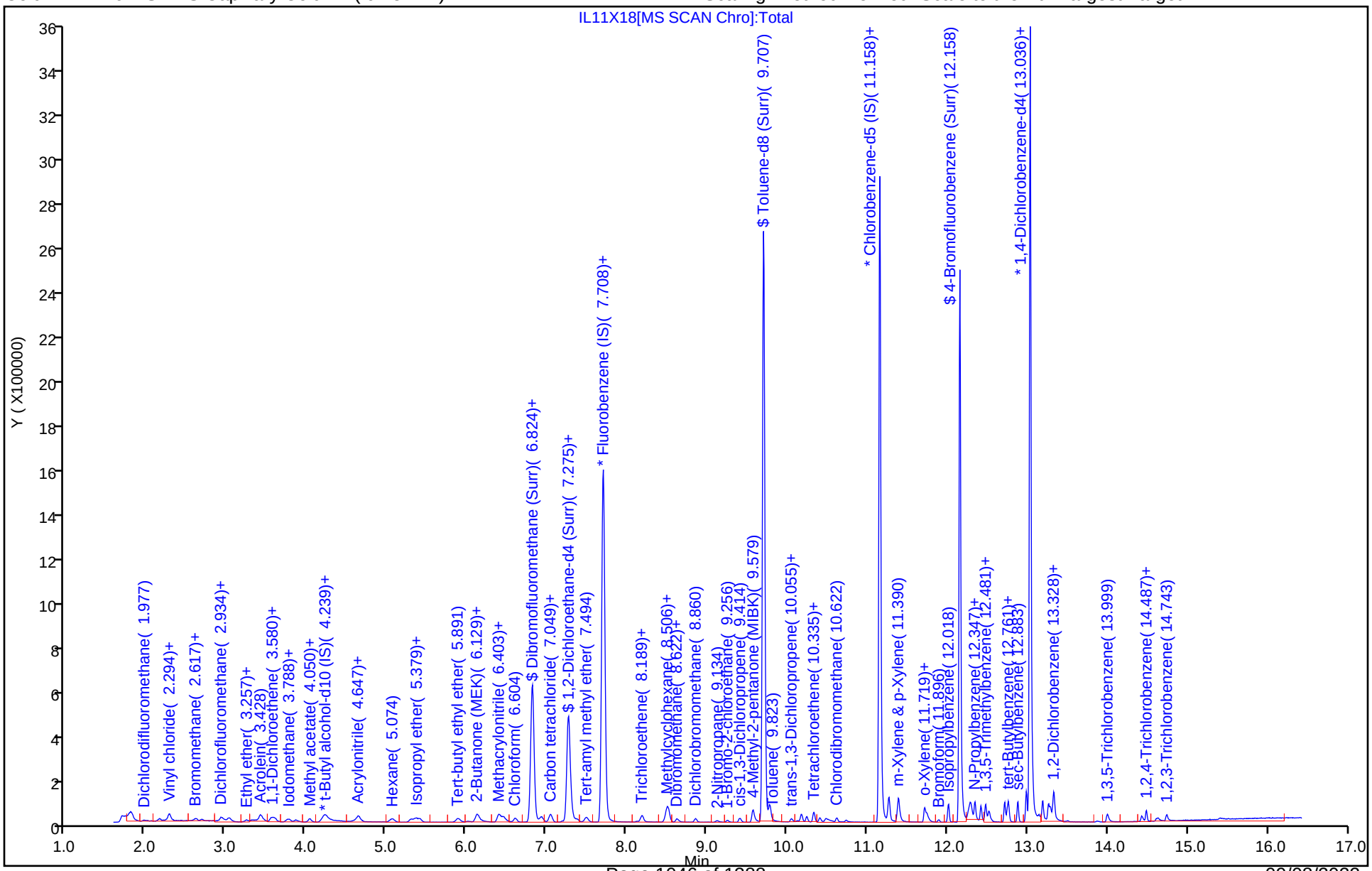
Report Date: 14-Jul-2022 14:51:50 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Injection Date:	11-Jul-2022 17:43:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	IC std1			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

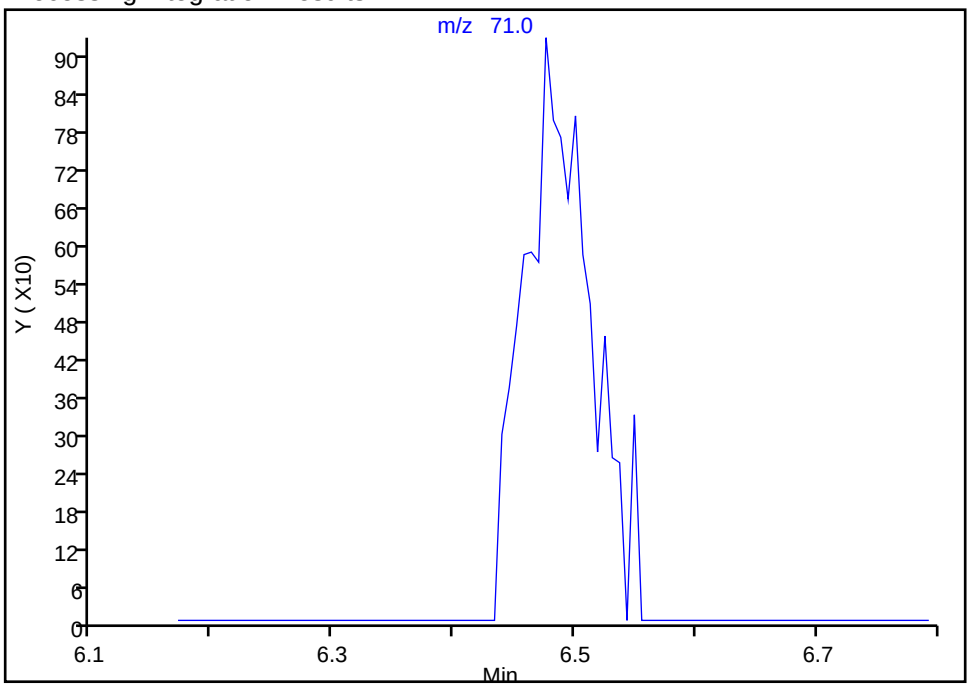
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Injection Date:	11-Jul-2022 17:43:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

44 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

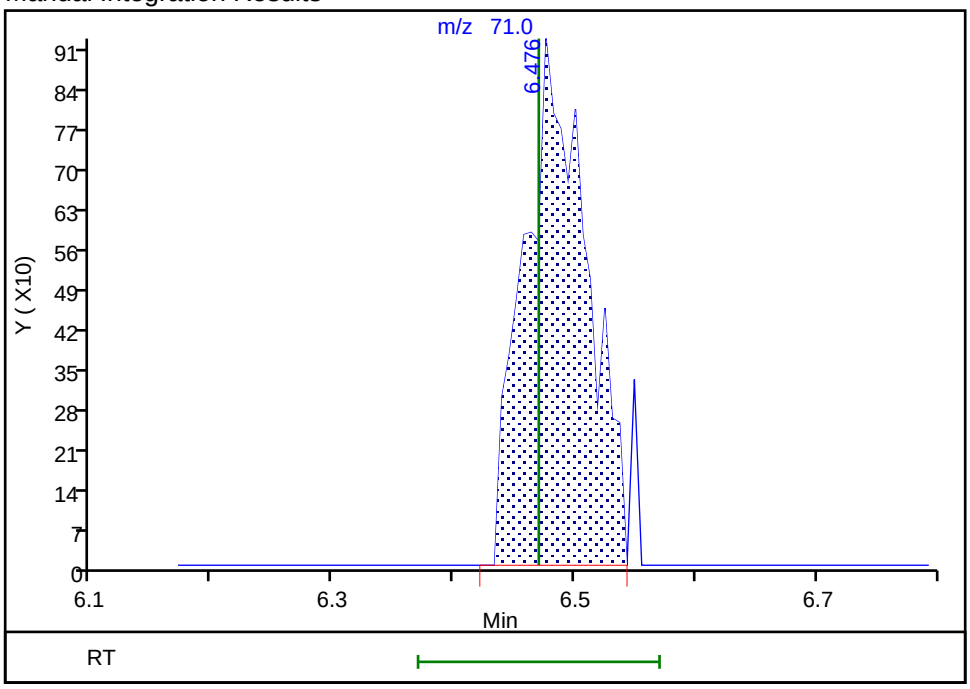
Processing Integration Results

Not Detected
Expected RT: 6.47



Manual Integration Results

RT: 6.48
Area: 3337
Amount: 0.699224
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:46:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

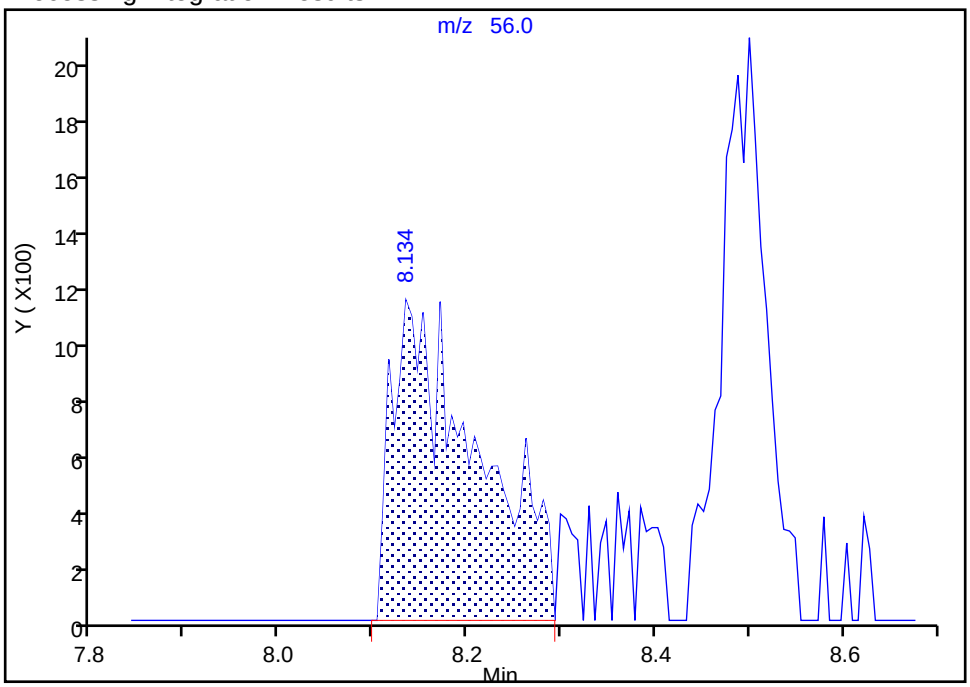
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Injection Date:	11-Jul-2022 17:43:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 n-Butanol, CAS: 71-36-3

Signal: 1

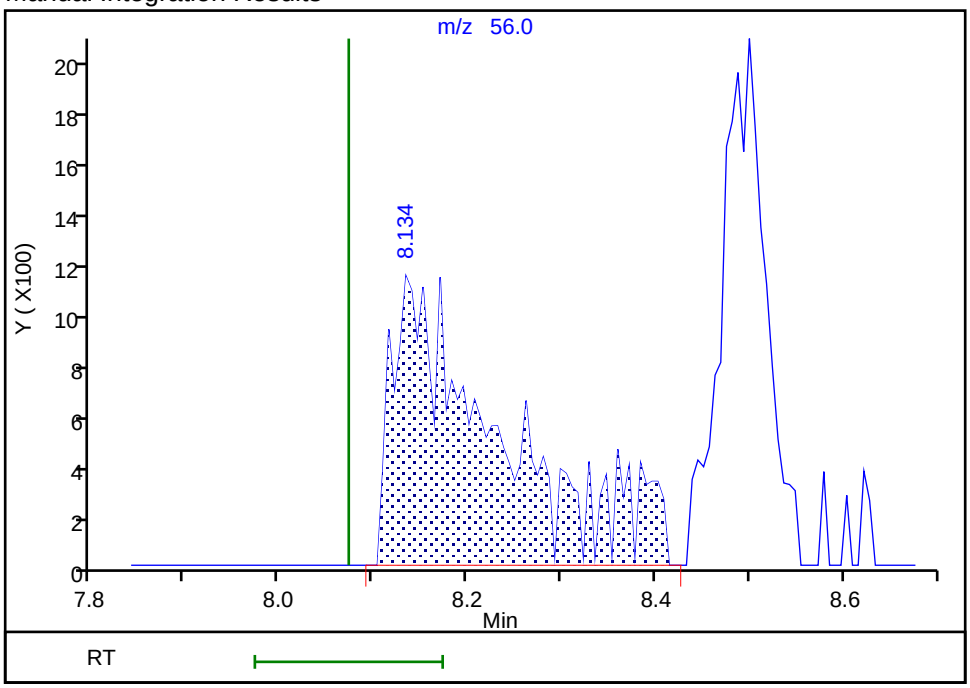
Processing Integration Results

RT: 8.13
Area: 6983
Amount: 18.135309
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 8831
Amount: 8.848695
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:53:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

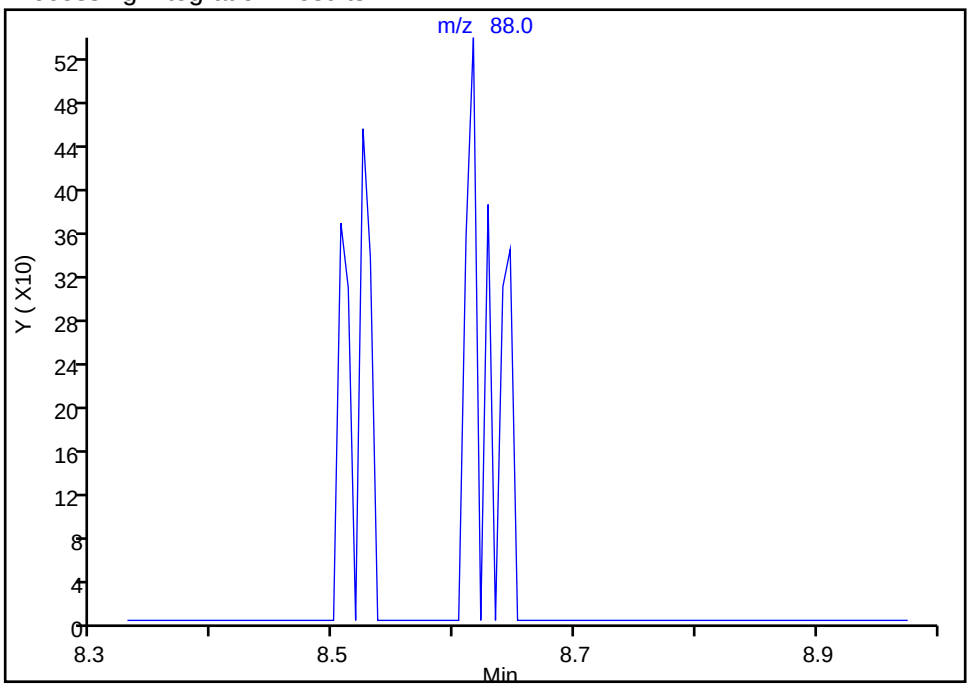
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Injection Date:	11-Jul-2022 17:43:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

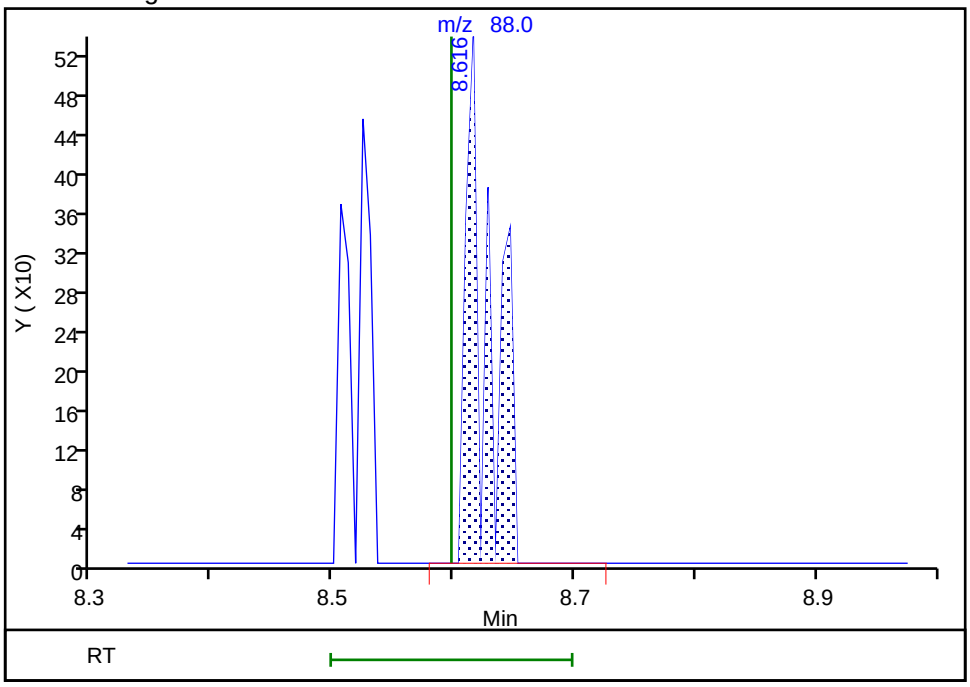
Not Detected
Expected RT: 8.60

Processing Integration Results



Manual Integration Results

RT: 8.62
Area: 696
Amount: 3.144251
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:47:12
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

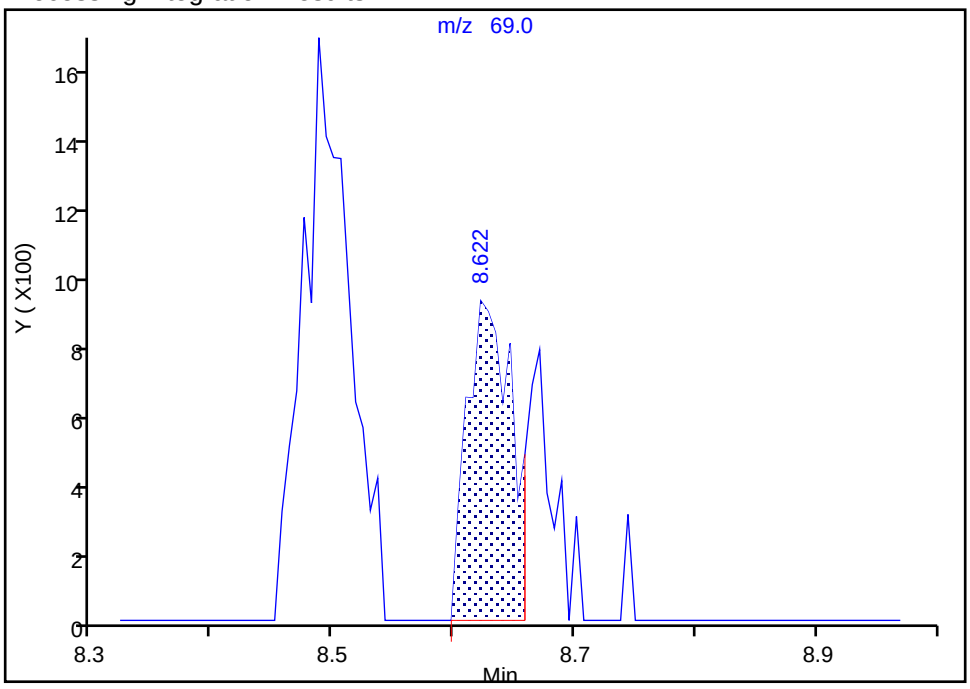
Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D
Injection Date: 11-Jul-2022 17:43:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

64 Methyl methacrylate, CAS: 80-62-6

Signal: 1

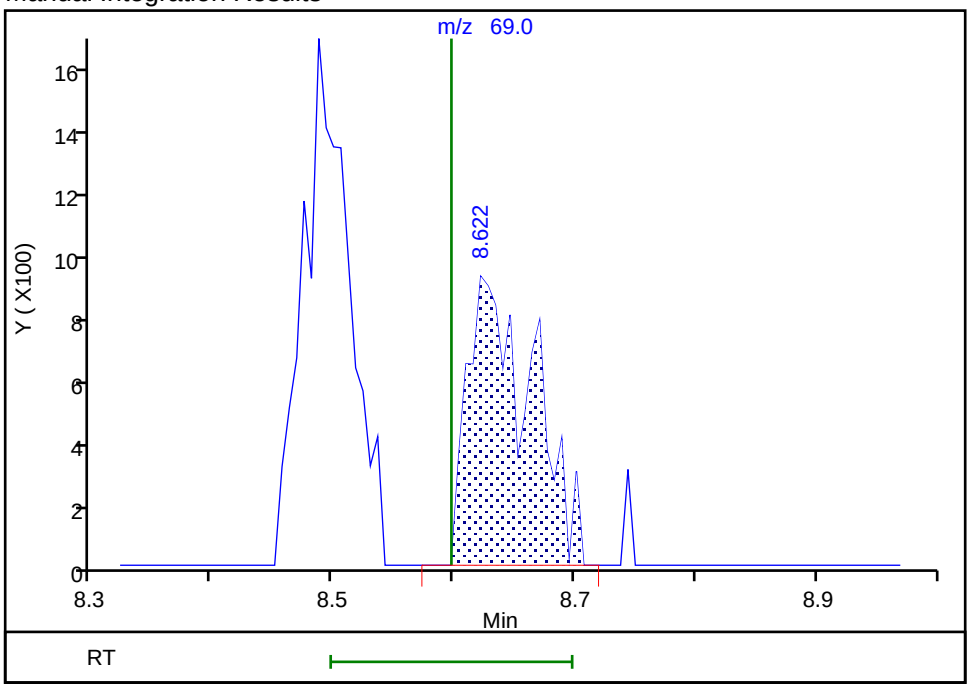
Processing Integration Results

RT: 8.62
Area: 2382
Amount: 0.206228
Amount Units: ug/l



Manual Integration Results

RT: 8.62
Area: 3407
Amount: 0.109855
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:54:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

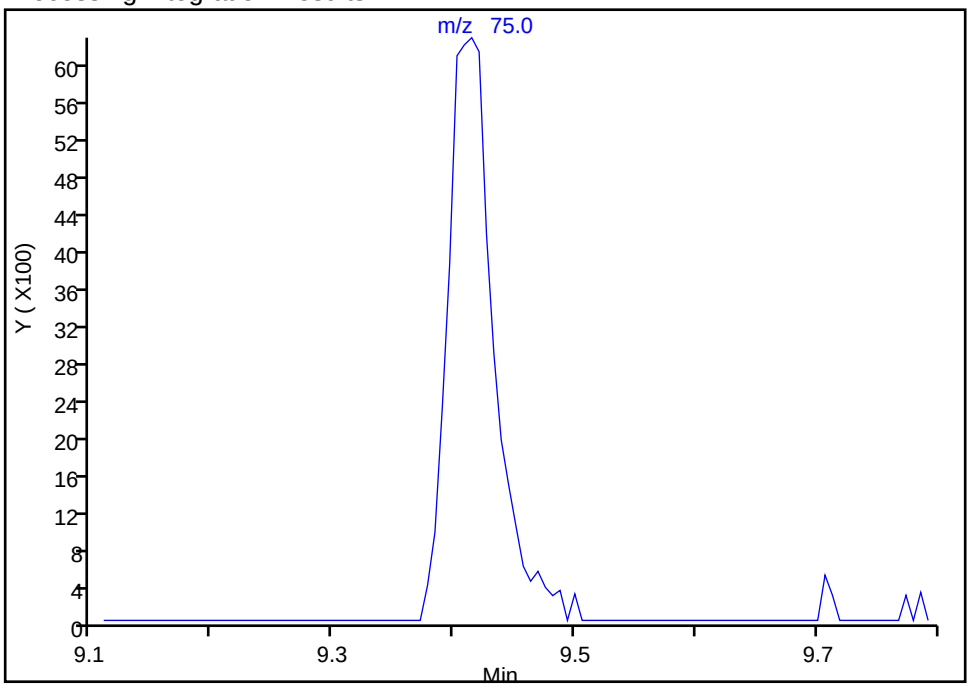
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Injection Date:	11-Jul-2022 17:43:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

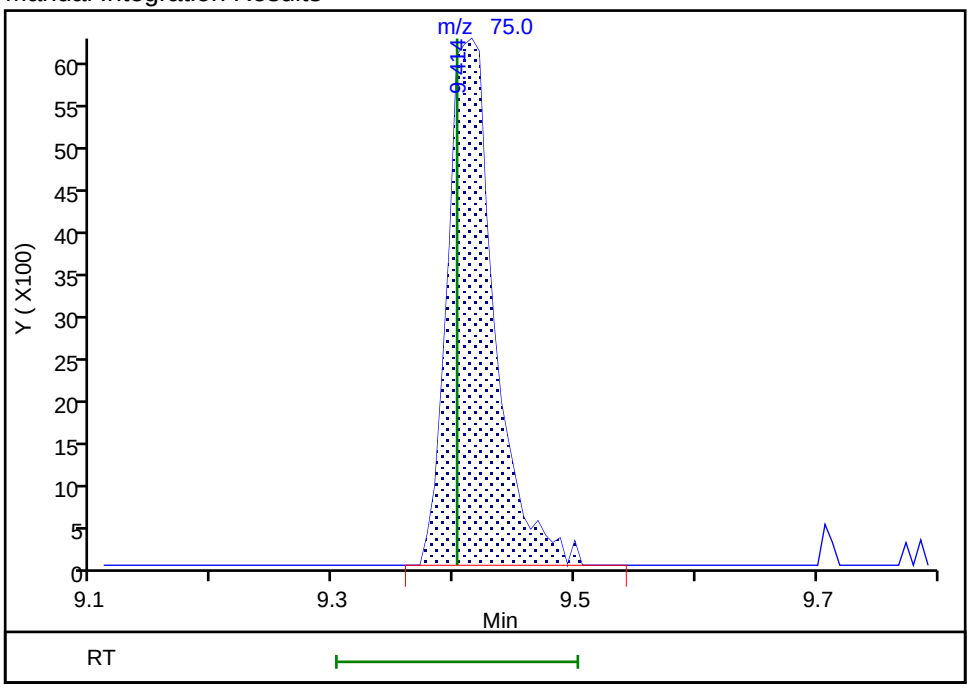
Not Detected
Expected RT: 9.40

Processing Integration Results



Manual Integration Results

RT: 9.41
Area: 16936
Amount: 0.170890
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:47:30
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

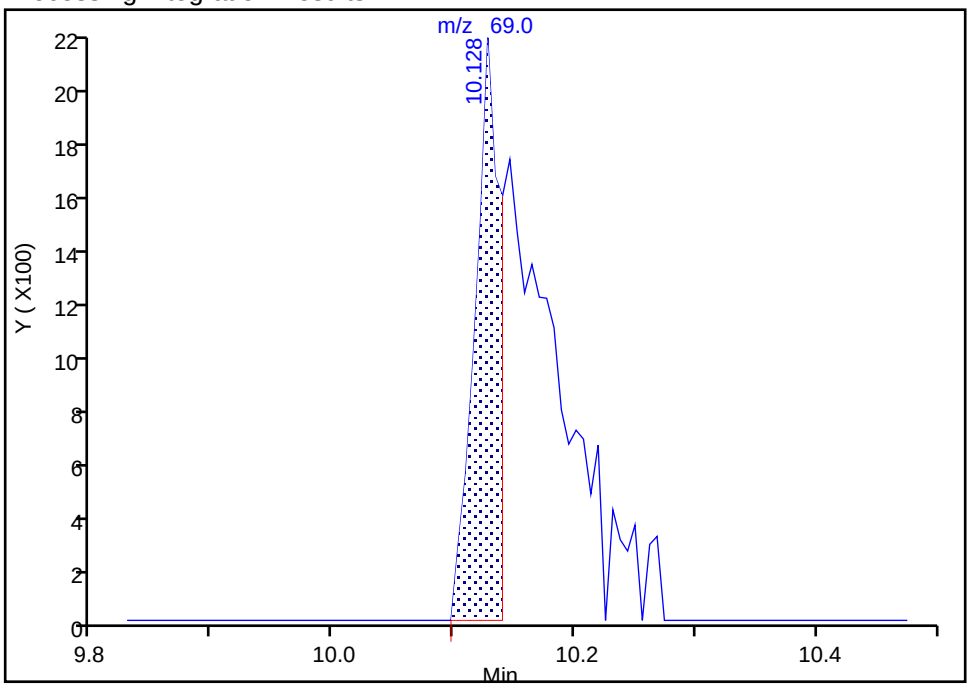
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Injection Date:	11-Jul-2022 17:43:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

79 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

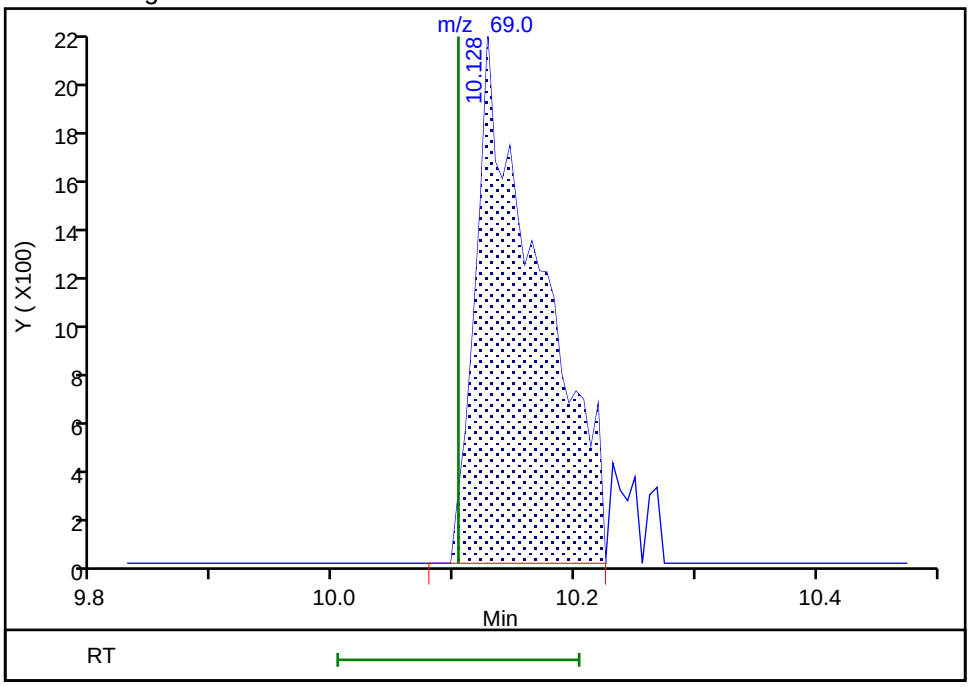
Processing Integration Results

RT: 10.13
Area: 3081
Amount: 0.201409
Amount Units: ug/l



Manual Integration Results

RT: 10.13
Area: 7741
Amount: 0.126782
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:55:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

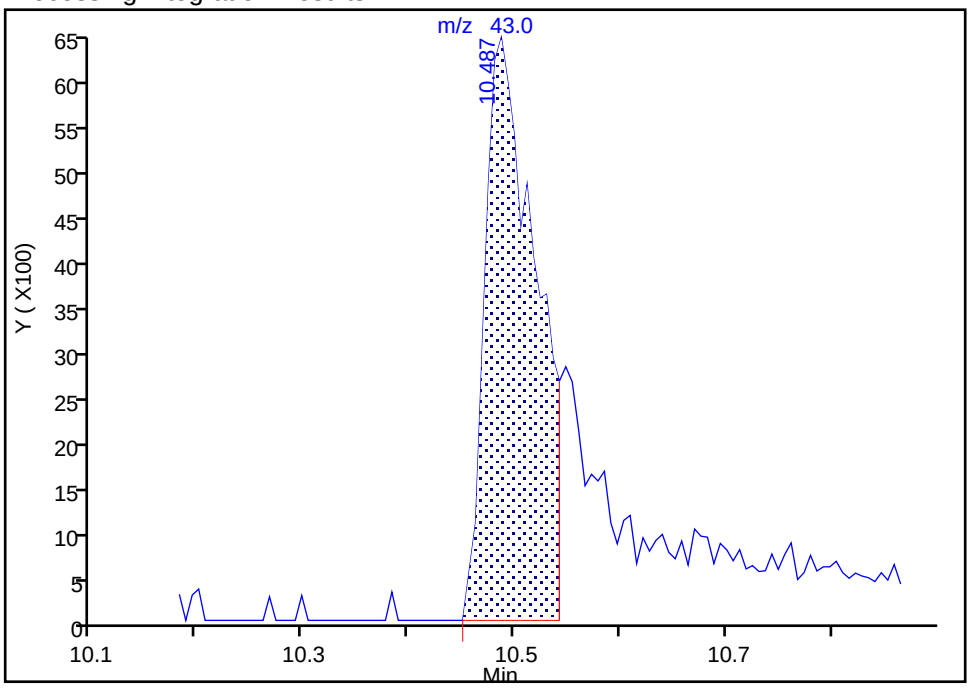
Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D
Injection Date: 11-Jul-2022 17:43:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

83 2-Hexanone, CAS: 591-78-6

Signal: 1

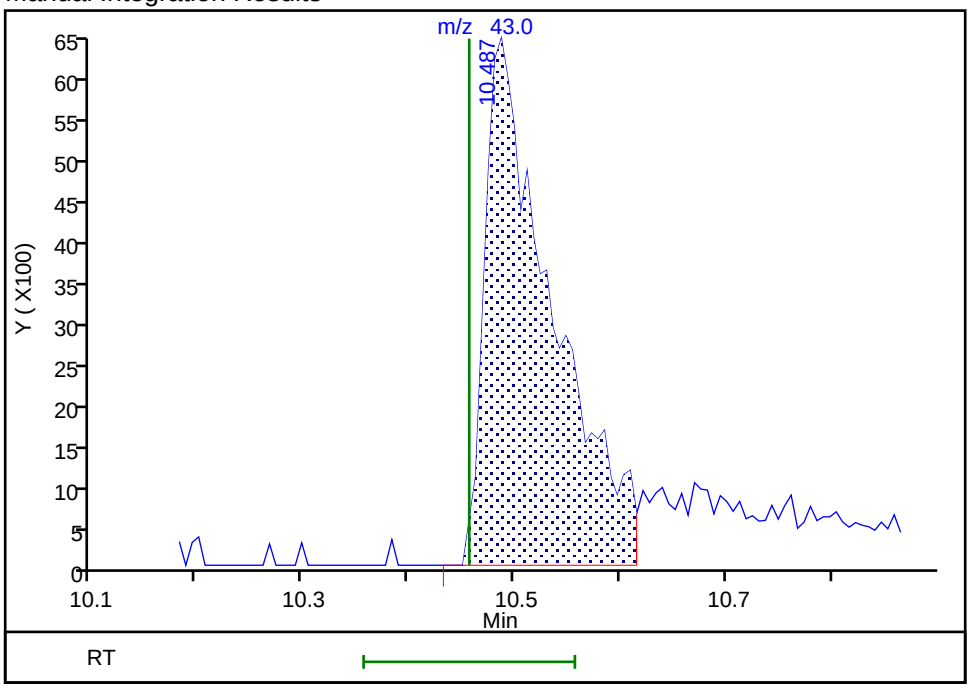
Processing Integration Results

RT: 10.49
Area: 21606
Amount: 2.038414
Amount Units: ug/l



Manual Integration Results

RT: 10.49
Area: 28416
Amount: 0.983539
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:57:41
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

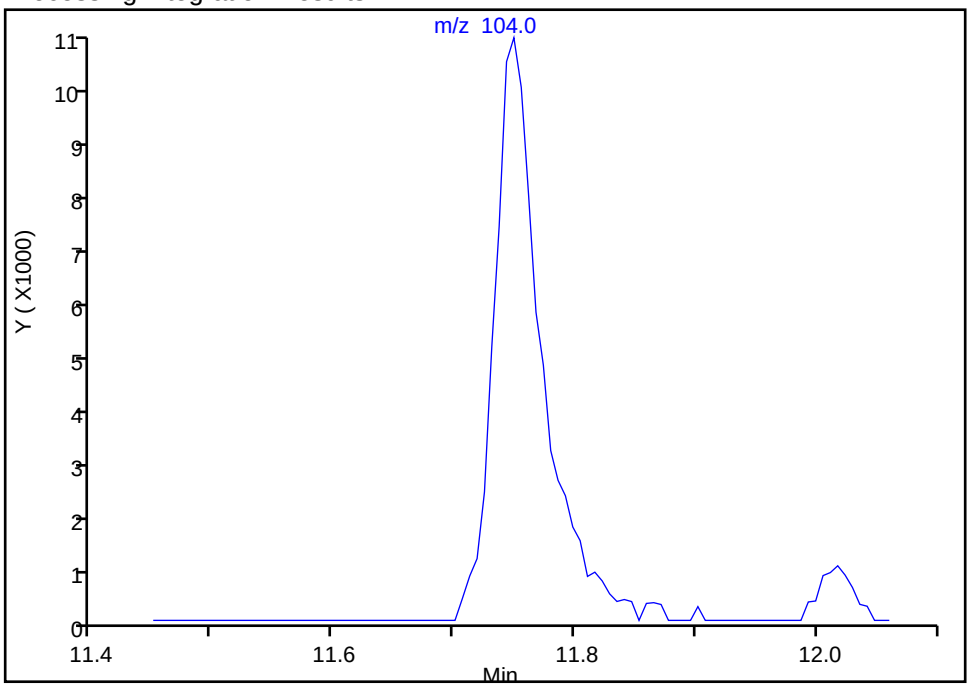
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Injection Date:	11-Jul-2022 17:43:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

95 Styrene, CAS: 100-42-5

Signal: 1

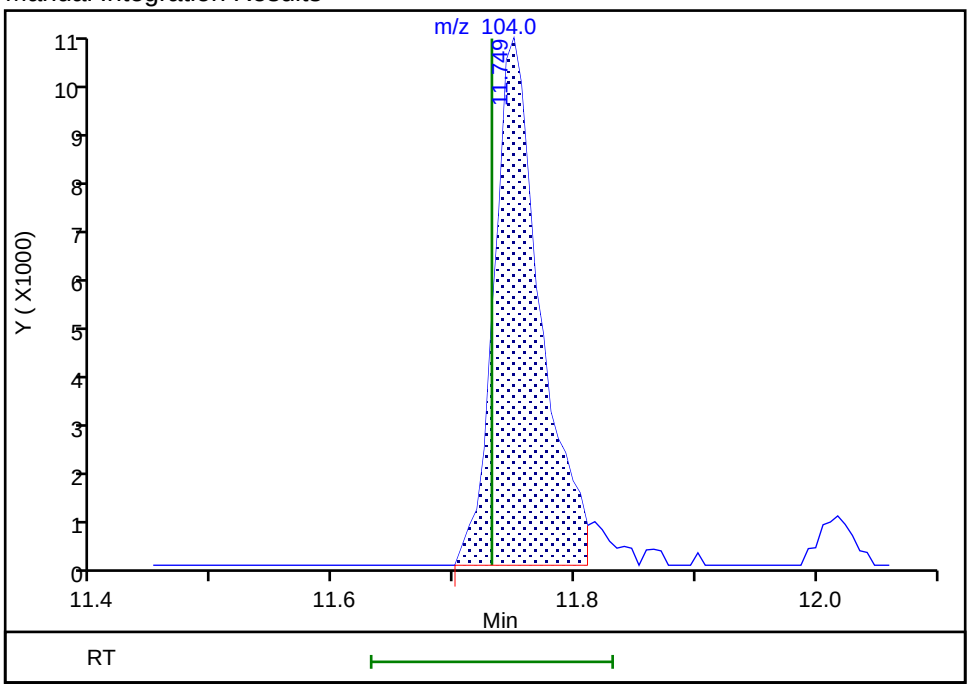
Not Detected
Expected RT: 11.73

Processing Integration Results



Manual Integration Results

RT: 11.75
Area: 28634
Amount: 0.148068
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:47:48
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

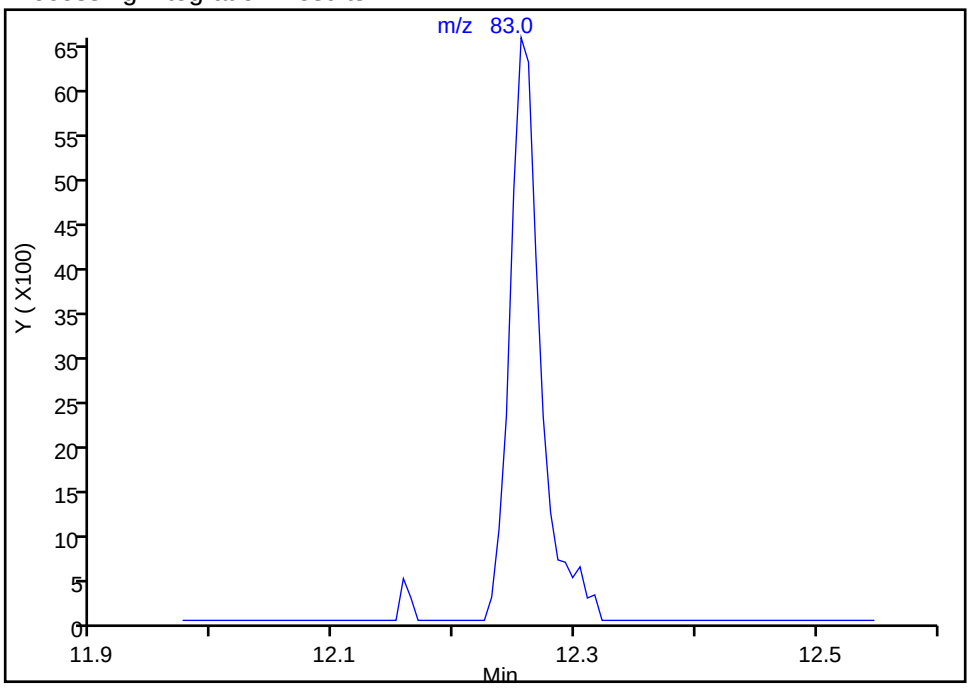
Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Injection Date:	11-Jul-2022 17:43:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

101 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

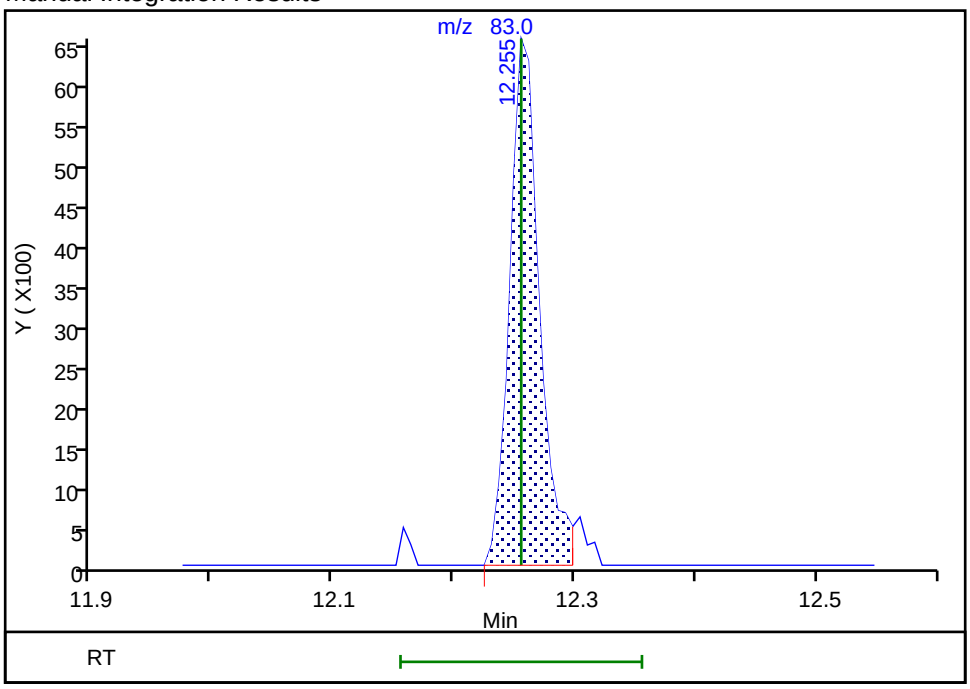
Not Detected
Expected RT: 12.26

Processing Integration Results



Manual Integration Results

RT: 12.26
Area: 11207
Amount: 0.180904
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 12:47:57
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

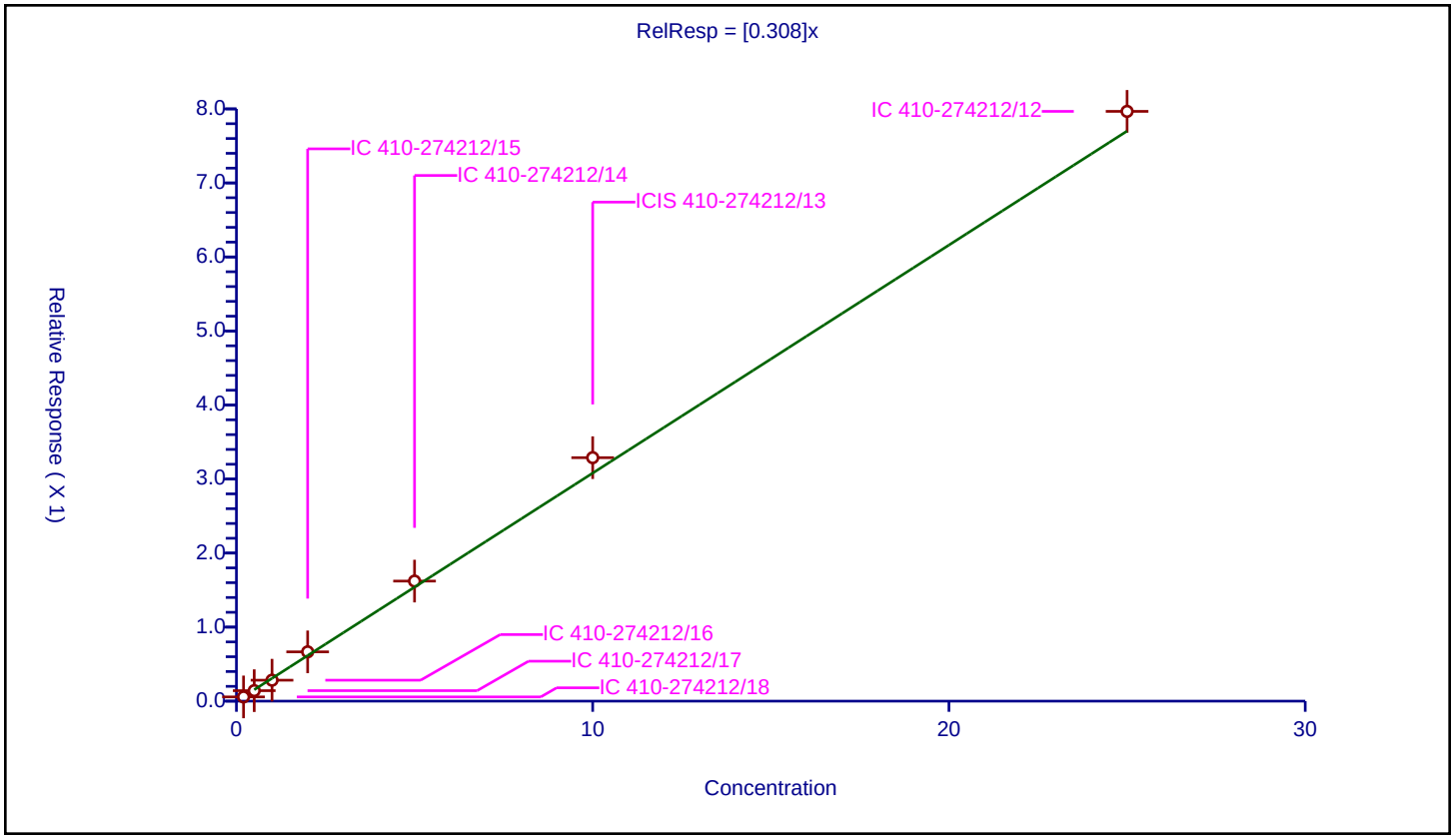
Curve Coefficients

Intercept:	0
Slope:	0.308

Error Coefficients

Standard Error:	842000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.057033	10.0	2230453.0	0.285166	Y
2	IC 410-274212/17	0.5	0.141719	10.0	2227997.0	0.283438	Y
3	IC 410-274212/16	1.0	0.282888	10.0	2298931.0	0.282888	Y
4	IC 410-274212/15	2.0	0.665775	10.0	2342051.0	0.332888	Y
5	IC 410-274212/14	5.0	1.621596	10.0	2371836.0	0.324319	Y
6	ICIS 410-274212/13	10.0	3.288751	10.0	2357451.0	0.328875	Y
7	IC 410-274212/12	25.0	7.966496	10.0	2340890.0	0.31866	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

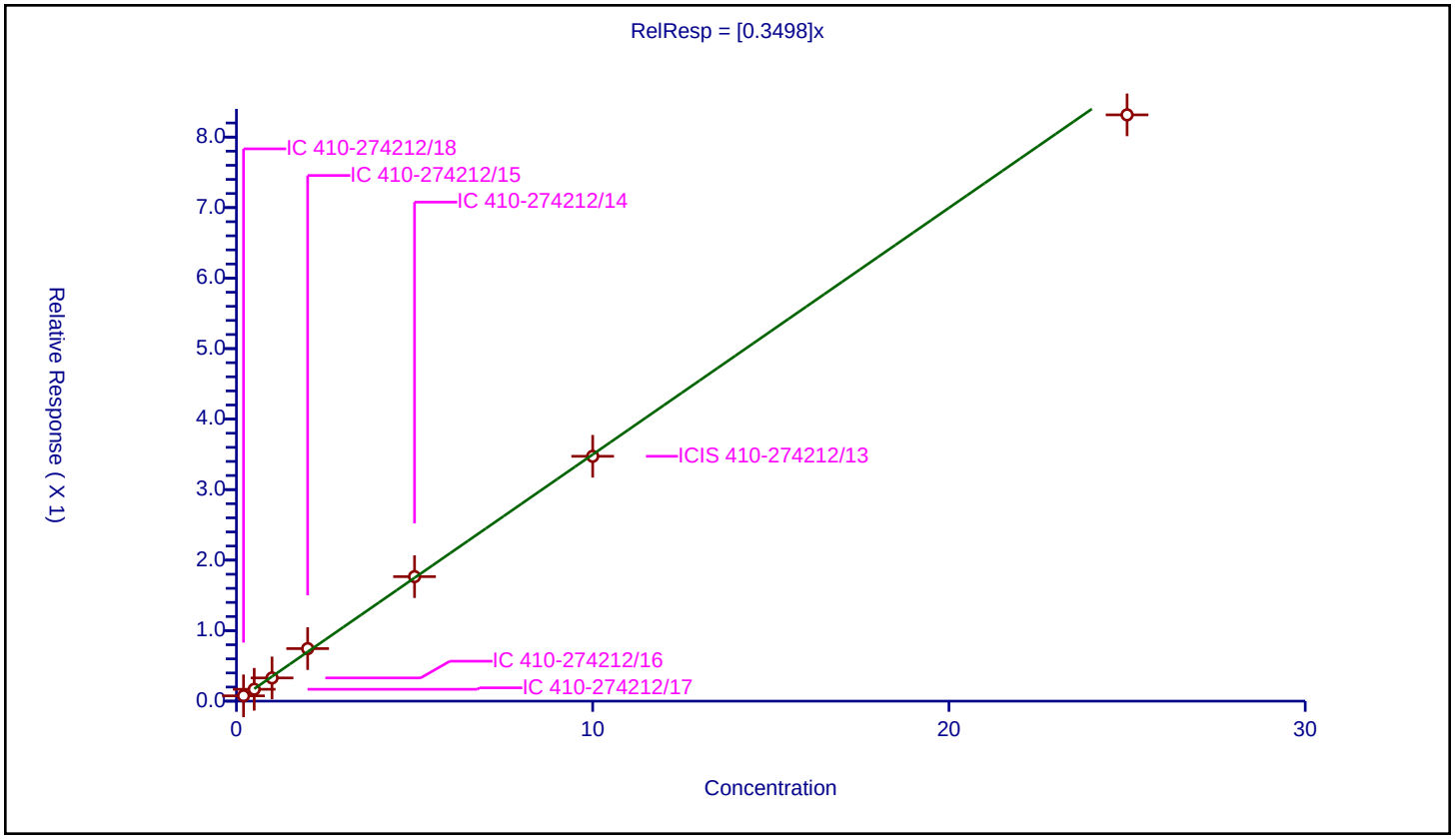
Curve Coefficients

Intercept:	0
Slope:	0.3498

Error Coefficients

Standard Error:	882000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.075496	10.0	2230453.0	0.377479	Y
2	IC 410-274212/17	0.5	0.168191	10.0	2227997.0	0.336383	Y
3	IC 410-274212/16	1.0	0.329183	10.0	2298931.0	0.329183	Y
4	IC 410-274212/15	2.0	0.744941	10.0	2342051.0	0.372471	Y
5	IC 410-274212/14	5.0	1.765691	10.0	2371836.0	0.353138	Y
6	ICIS 410-274212/13	10.0	3.472908	10.0	2357451.0	0.347291	Y
7	IC 410-274212/12	25.0	8.315406	10.0	2340890.0	0.332616	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

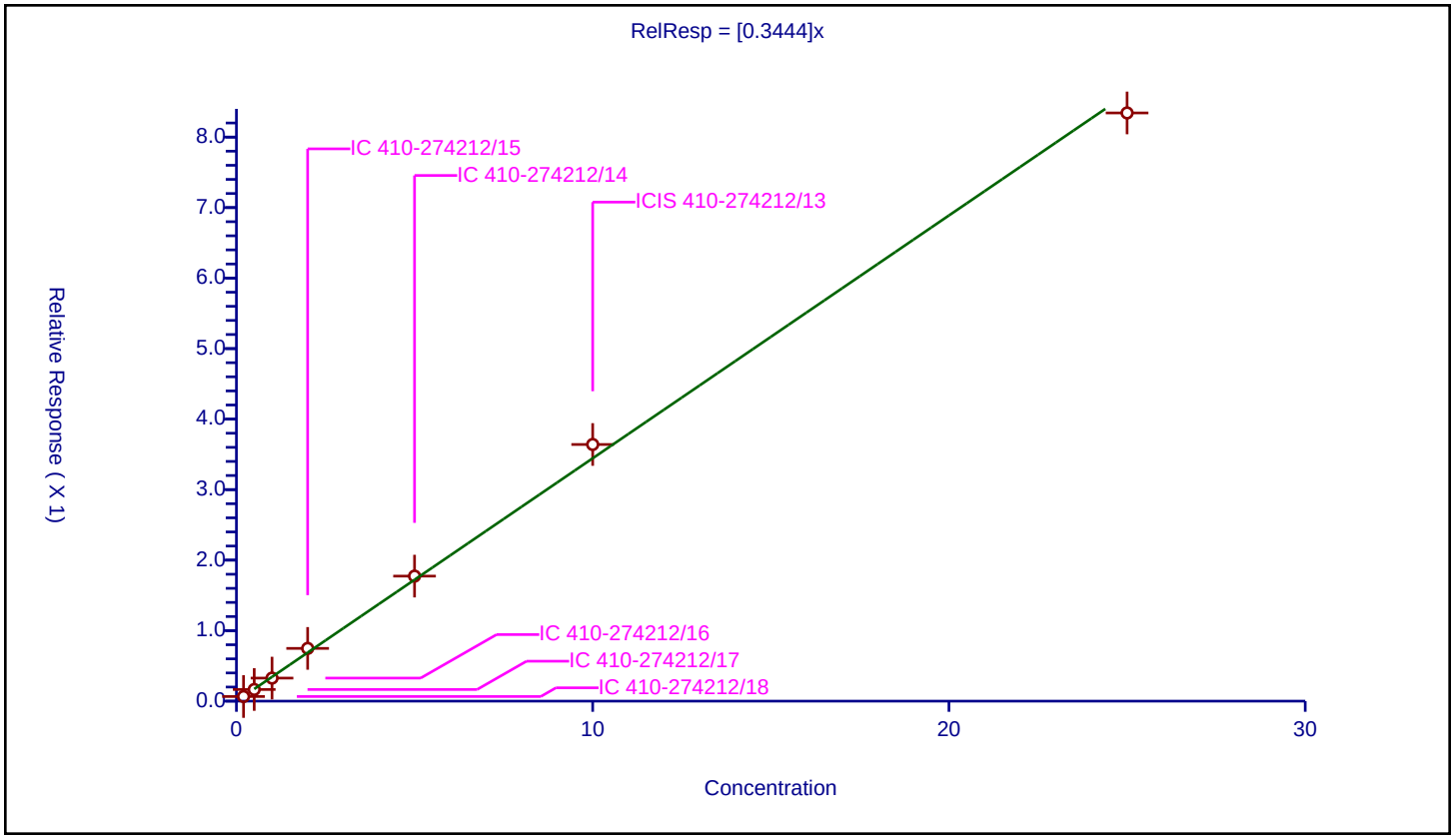
Curve Coefficients

Intercept:	0
Slope:	0.3444

Error Coefficients

Standard Error:	891000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.065502	10.0	2230453.0	0.327512	Y
2	IC 410-274212/17	0.5	0.16509	10.0	2227997.0	0.33018	Y
3	IC 410-274212/16	1.0	0.326774	10.0	2298931.0	0.326774	Y
4	IC 410-274212/15	2.0	0.748109	10.0	2342051.0	0.374055	Y
5	IC 410-274212/14	5.0	1.773508	10.0	2371836.0	0.354702	Y
6	ICIS 410-274212/13	10.0	3.640262	10.0	2357451.0	0.364026	Y
7	IC 410-274212/12	25.0	8.342618	10.0	2340890.0	0.333705	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

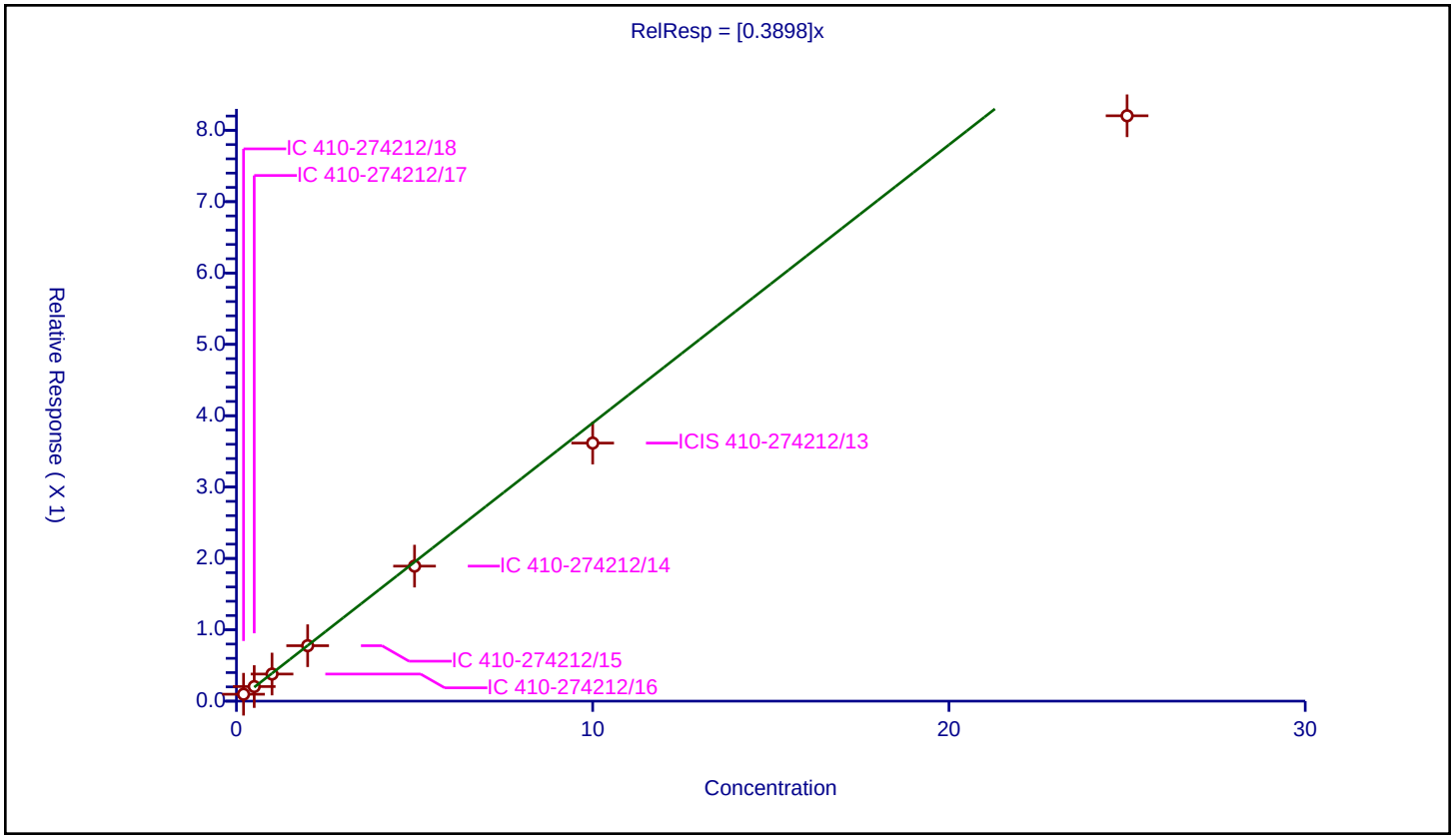
Curve Coefficients

Intercept:	0
Slope:	0.3898

Error Coefficients

Standard Error:	881000
Relative Standard Error:	12.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.09672	10.0	2230453.0	0.483601	Y
2	IC 410-274212/17	0.5	0.204345	10.0	2227997.0	0.40869	Y
3	IC 410-274212/16	1.0	0.379777	10.0	2298931.0	0.379777	Y
4	IC 410-274212/15	2.0	0.777016	10.0	2342051.0	0.388508	Y
5	IC 410-274212/14	5.0	1.892424	10.0	2371836.0	0.378485	Y
6	ICIS 410-274212/13	10.0	3.616533	10.0	2357451.0	0.361653	Y
7	IC 410-274212/12	25.0	8.203799	10.0	2340890.0	0.328152	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

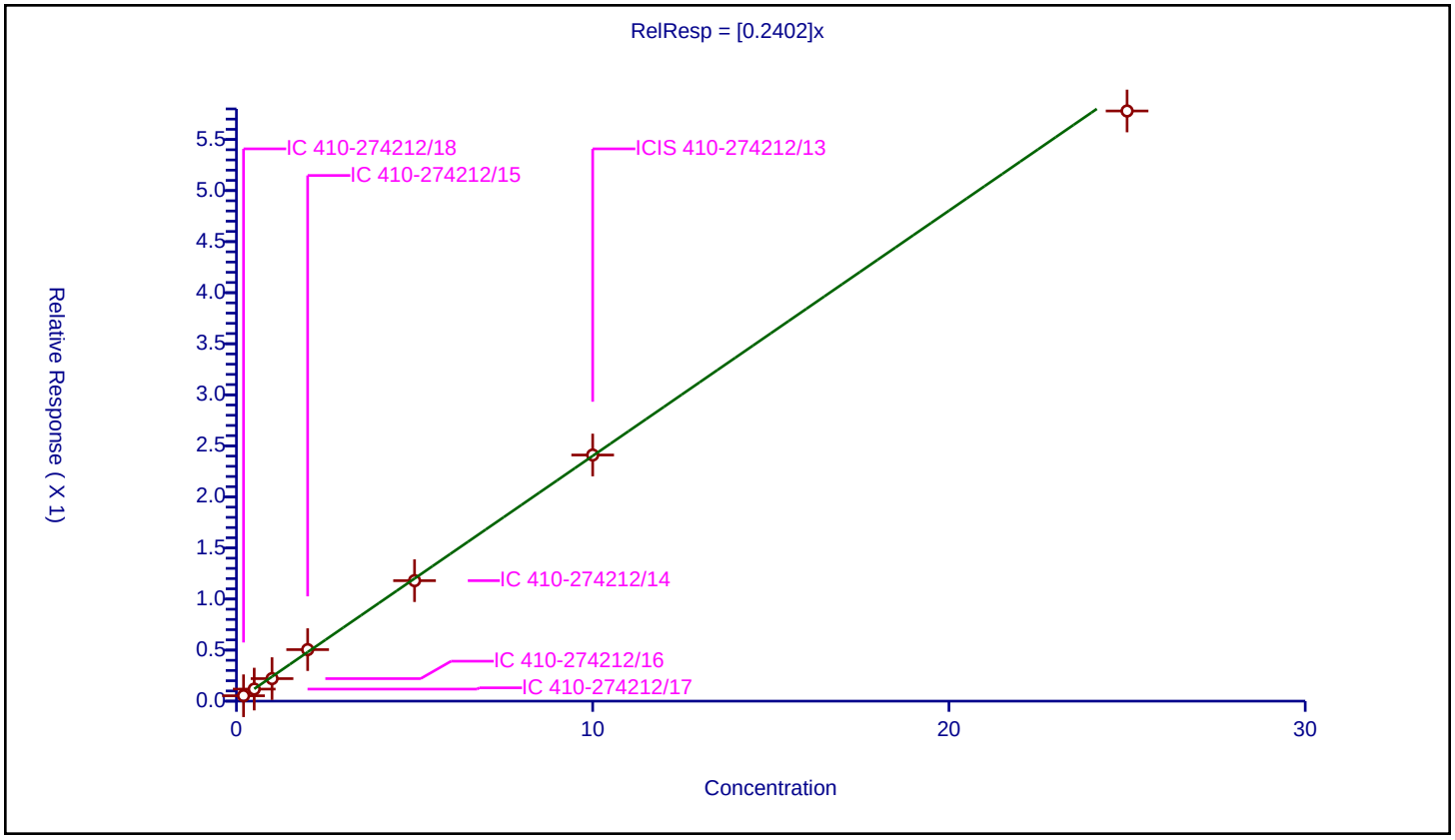
Curve Coefficients

Intercept:	0
Slope:	0.2402

Error Coefficients

Standard Error:	612000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.05277	10.0	2230453.0	0.263848	Y
2	IC 410-274212/17	0.5	0.118129	10.0	2227997.0	0.236257	Y
3	IC 410-274212/16	1.0	0.220537	10.0	2298931.0	0.220537	Y
4	IC 410-274212/15	2.0	0.504562	10.0	2342051.0	0.252281	Y
5	IC 410-274212/14	5.0	1.179778	10.0	2371836.0	0.235956	Y
6	ICIS 410-274212/13	10.0	2.410481	10.0	2357451.0	0.241048	Y
7	IC 410-274212/12	25.0	5.779716	10.0	2340890.0	0.231189	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

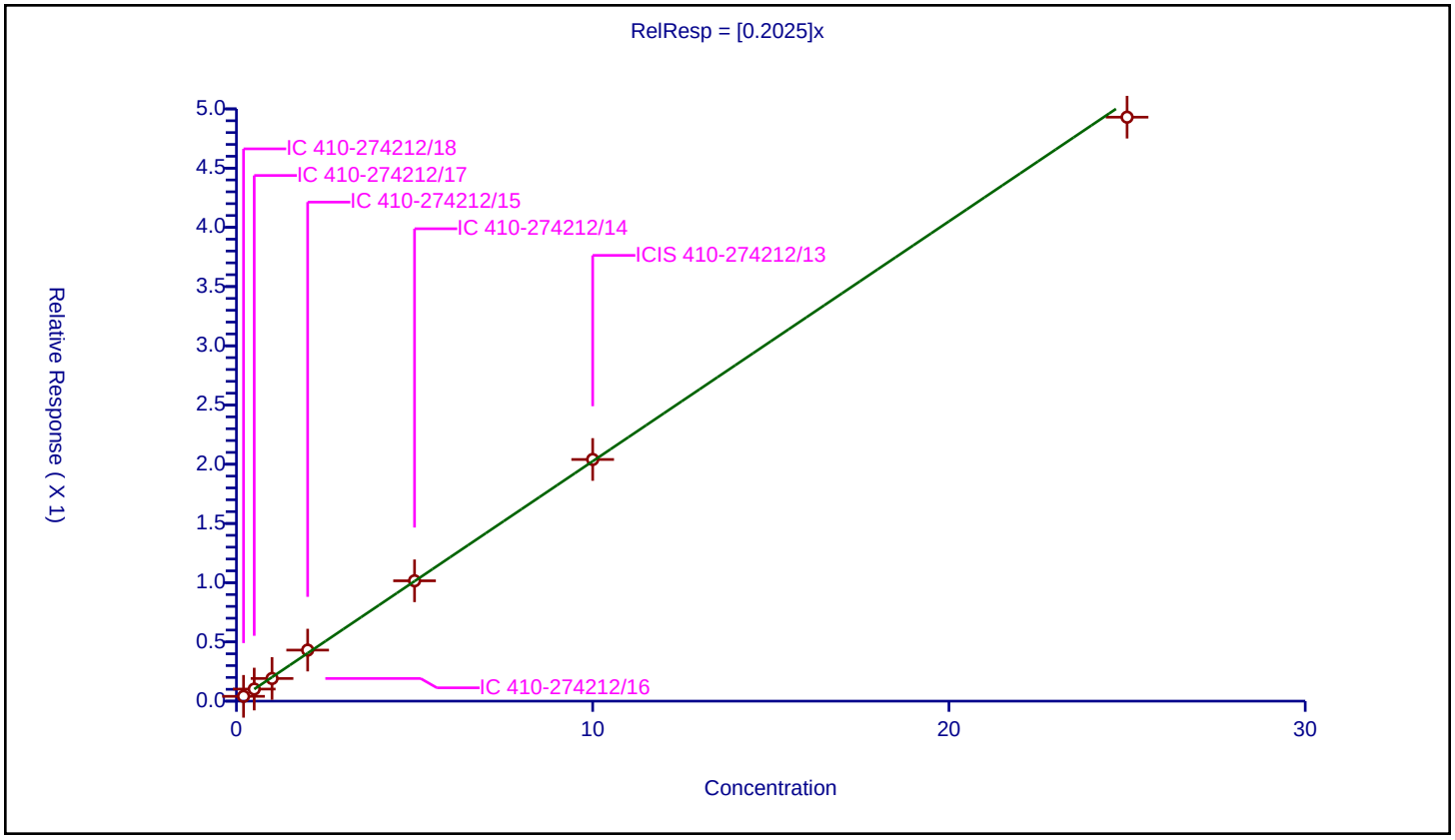
Curve Coefficients

Intercept:	0
Slope:	0.2025

Error Coefficients

Standard Error:	522000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.04053	10.0	2230453.0	0.202649	Y
2	IC 410-274212/17	0.5	0.101971	10.0	2227997.0	0.203941	Y
3	IC 410-274212/16	1.0	0.191202	10.0	2298931.0	0.191202	Y
4	IC 410-274212/15	2.0	0.430887	10.0	2342051.0	0.215444	Y
5	IC 410-274212/14	5.0	1.01593	10.0	2371836.0	0.203186	Y
6	ICIS 410-274212/13	10.0	2.04025	10.0	2357451.0	0.204025	Y
7	IC 410-274212/12	25.0	4.930108	10.0	2340890.0	0.197204	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

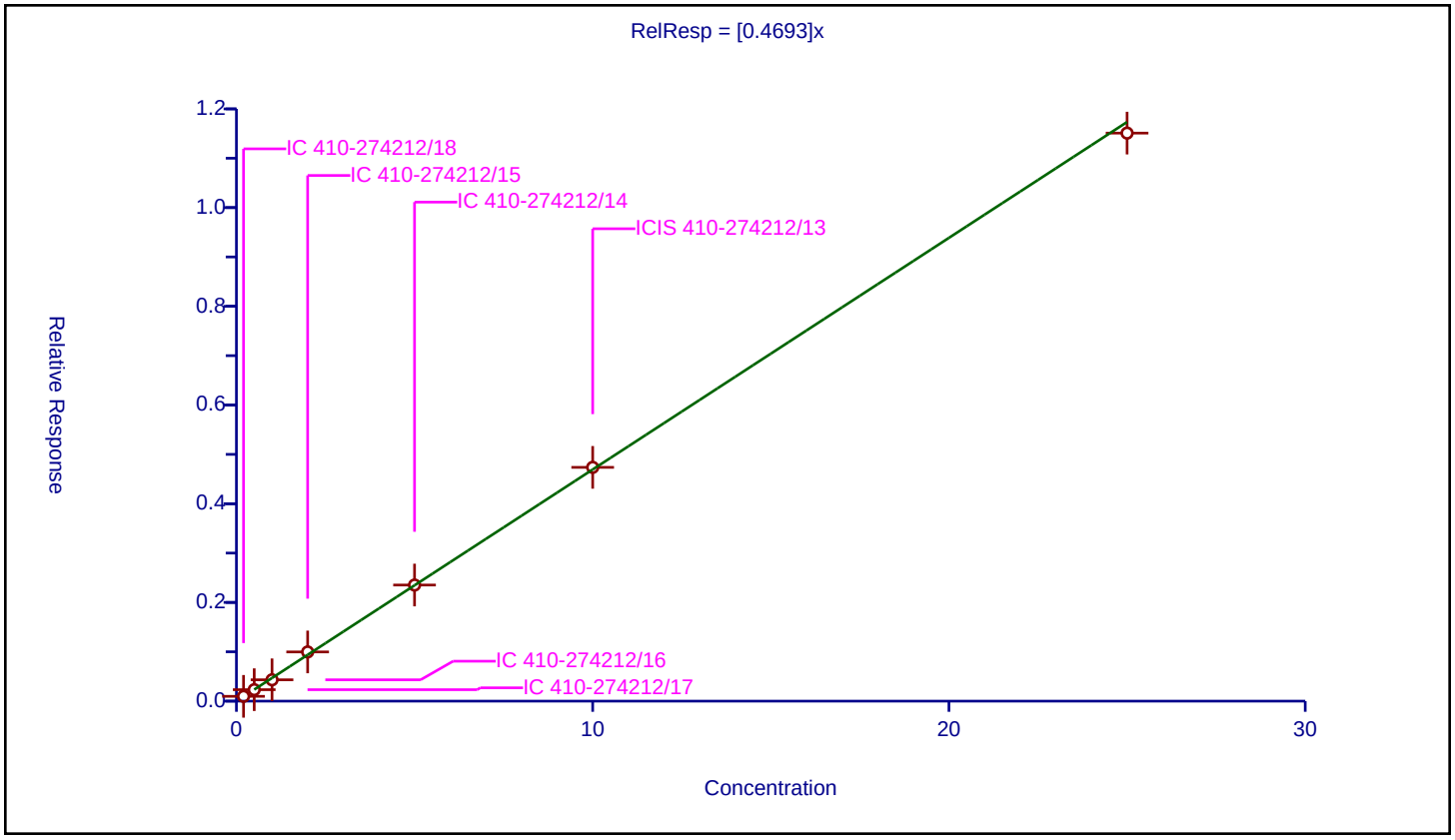
Curve Coefficients

Intercept:	0
Slope:	0.4693

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.097155	10.0	2230453.0	0.485776	Y
2	IC 410-274212/17	0.5	0.2322	10.0	2227997.0	0.464399	Y
3	IC 410-274212/16	1.0	0.43234	10.0	2298931.0	0.43234	Y
4	IC 410-274212/15	2.0	0.99678	10.0	2342051.0	0.49839	Y
5	IC 410-274212/14	5.0	2.352405	10.0	2371836.0	0.470481	Y
6	ICIS 410-274212/13	10.0	4.736739	10.0	2357451.0	0.473674	Y
7	IC 410-274212/12	25.0	11.509716	10.0	2340890.0	0.460389	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

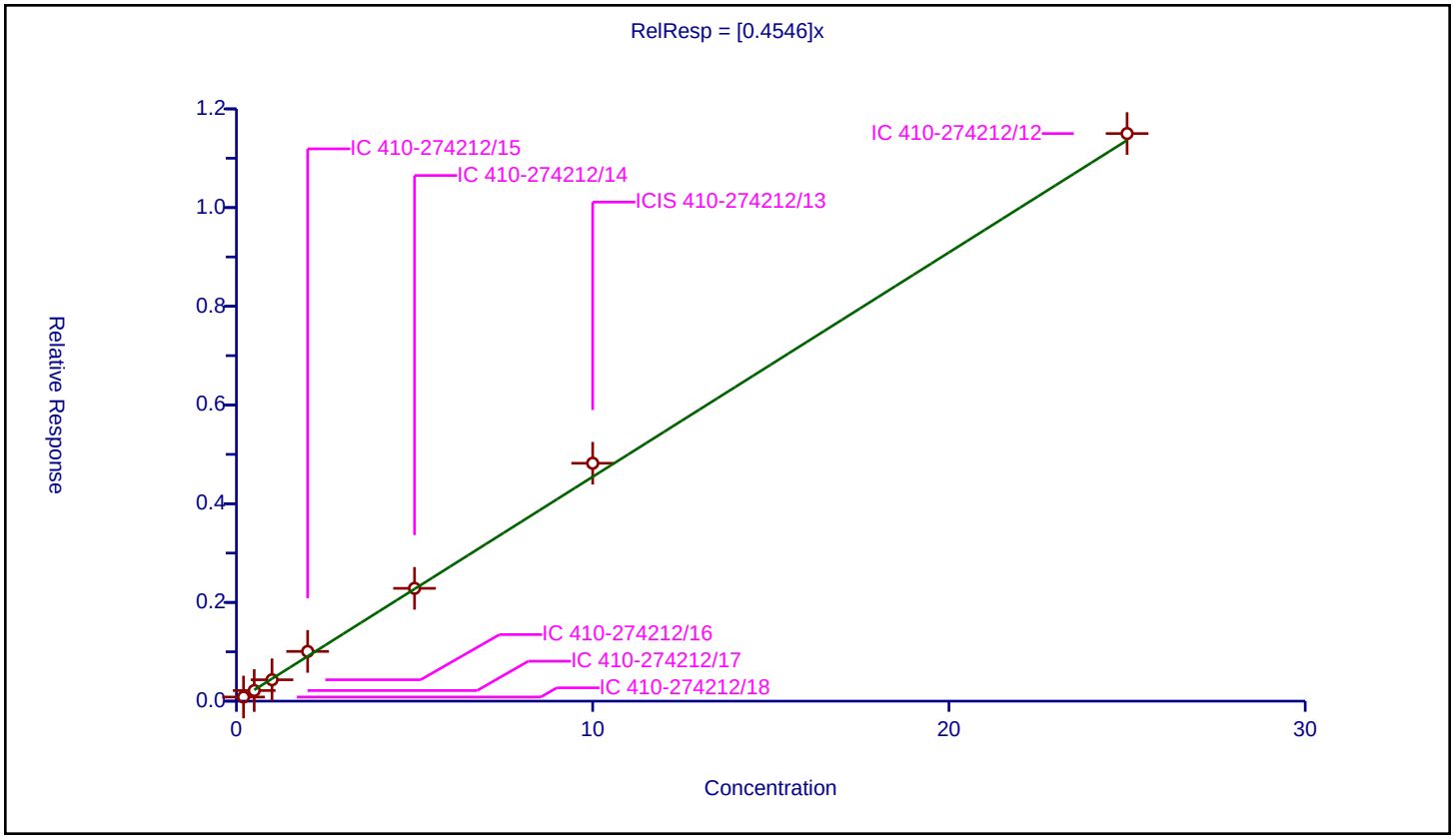
Curve Coefficients

Intercept:	0
Slope:	0.4546

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.083261	10.0	2230453.0	0.416306	Y
2	IC 410-274212/17	0.5	0.214973	10.0	2227997.0	0.429947	Y
3	IC 410-274212/16	1.0	0.432862	10.0	2298931.0	0.432862	Y
4	IC 410-274212/15	2.0	1.007267	10.0	2342051.0	0.503633	Y
5	IC 410-274212/14	5.0	2.285841	10.0	2371836.0	0.457168	Y
6	ICIS 410-274212/13	10.0	4.82041	10.0	2357451.0	0.482041	Y
7	IC 410-274212/12	25.0	11.500408	10.0	2340890.0	0.460016	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

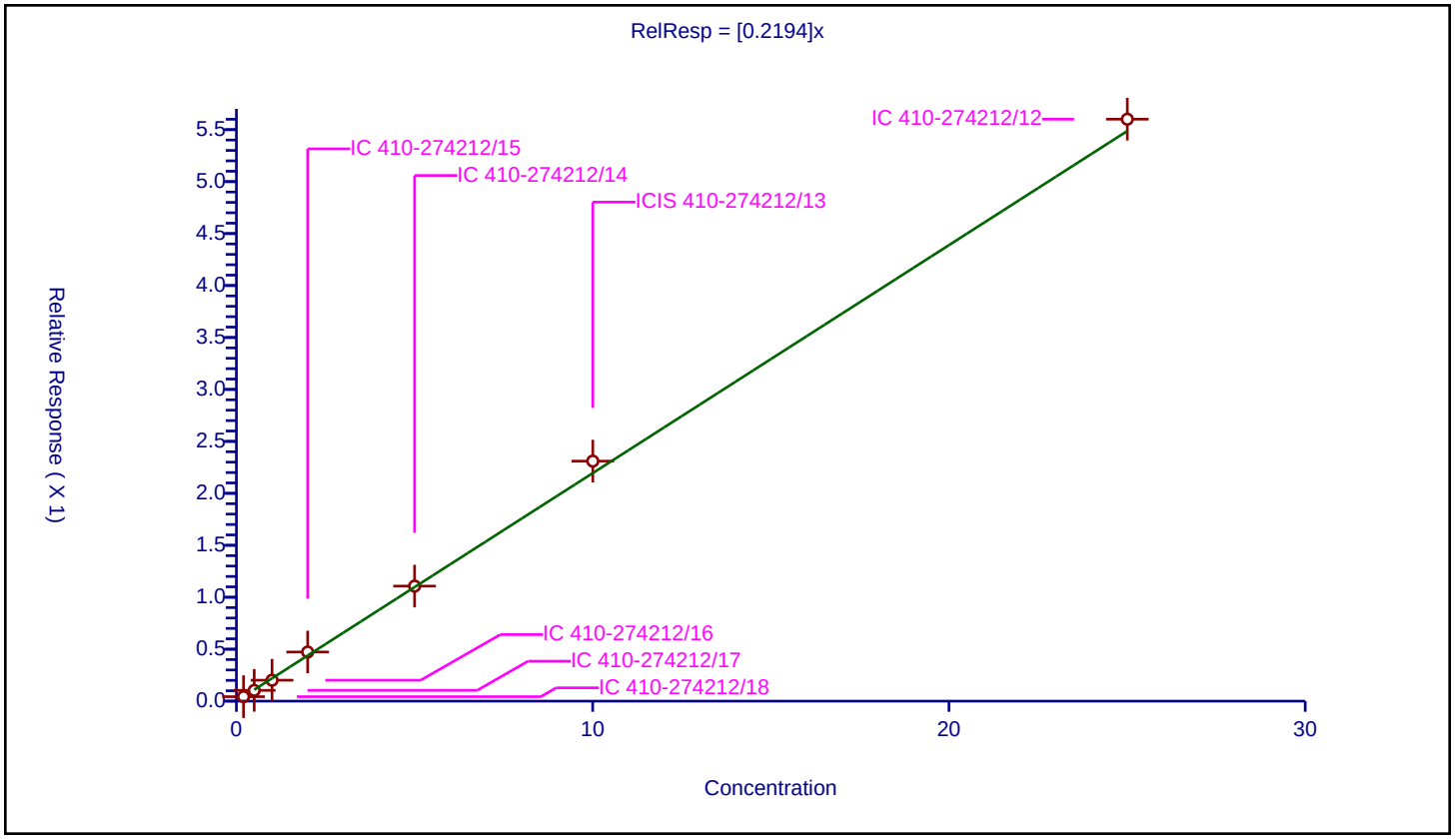
Curve Coefficients

Intercept:	0
Slope:	0.2194

Error Coefficients

Standard Error:	592000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.200057	0.042991	10.0	2230453.0	0.214895	Y
2	IC 410-274212/17	0.500143	0.103654	10.0	2227997.0	0.207248	Y
3	IC 410-274212/16	1.000286	0.201285	10.0	2298931.0	0.201227	Y
4	IC 410-274212/15	2.000572	0.472833	10.0	2342051.0	0.236349	Y
5	IC 410-274212/14	5.00143	1.107256	10.0	2371836.0	0.221388	Y
6	ICIS 410-274212/13	10.00286	2.31005	10.0	2357451.0	0.230939	Y
7	IC 410-274212/12	25.00715	5.600917	10.0	2340890.0	0.223973	Y



Calibration / 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

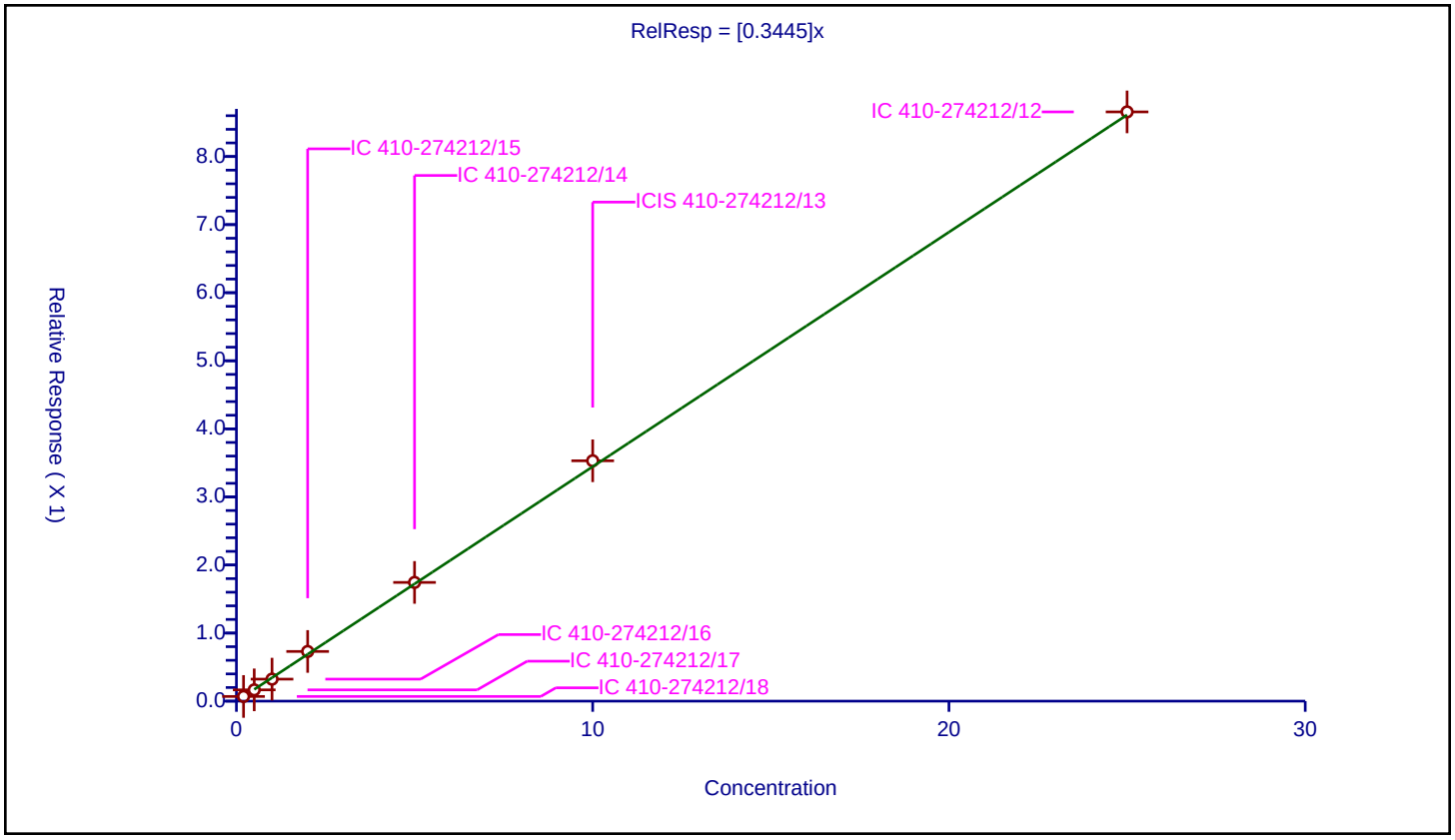
Curve Coefficients

Intercept:	0
Slope:	0.3445

Error Coefficients

Standard Error:	913000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.068739	10.0	2230453.0	0.343697	Y
2	IC 410-274212/17	0.5	0.165669	10.0	2227997.0	0.331338	Y
3	IC 410-274212/16	1.0	0.323368	10.0	2298931.0	0.323368	Y
4	IC 410-274212/15	2.0	0.729771	10.0	2342051.0	0.364885	Y
5	IC 410-274212/14	5.0	1.743809	10.0	2371836.0	0.348762	Y
6	ICIS 410-274212/13	10.0	3.530644	10.0	2357451.0	0.353064	Y
7	IC 410-274212/12	25.0	8.655661	10.0	2340890.0	0.346226	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

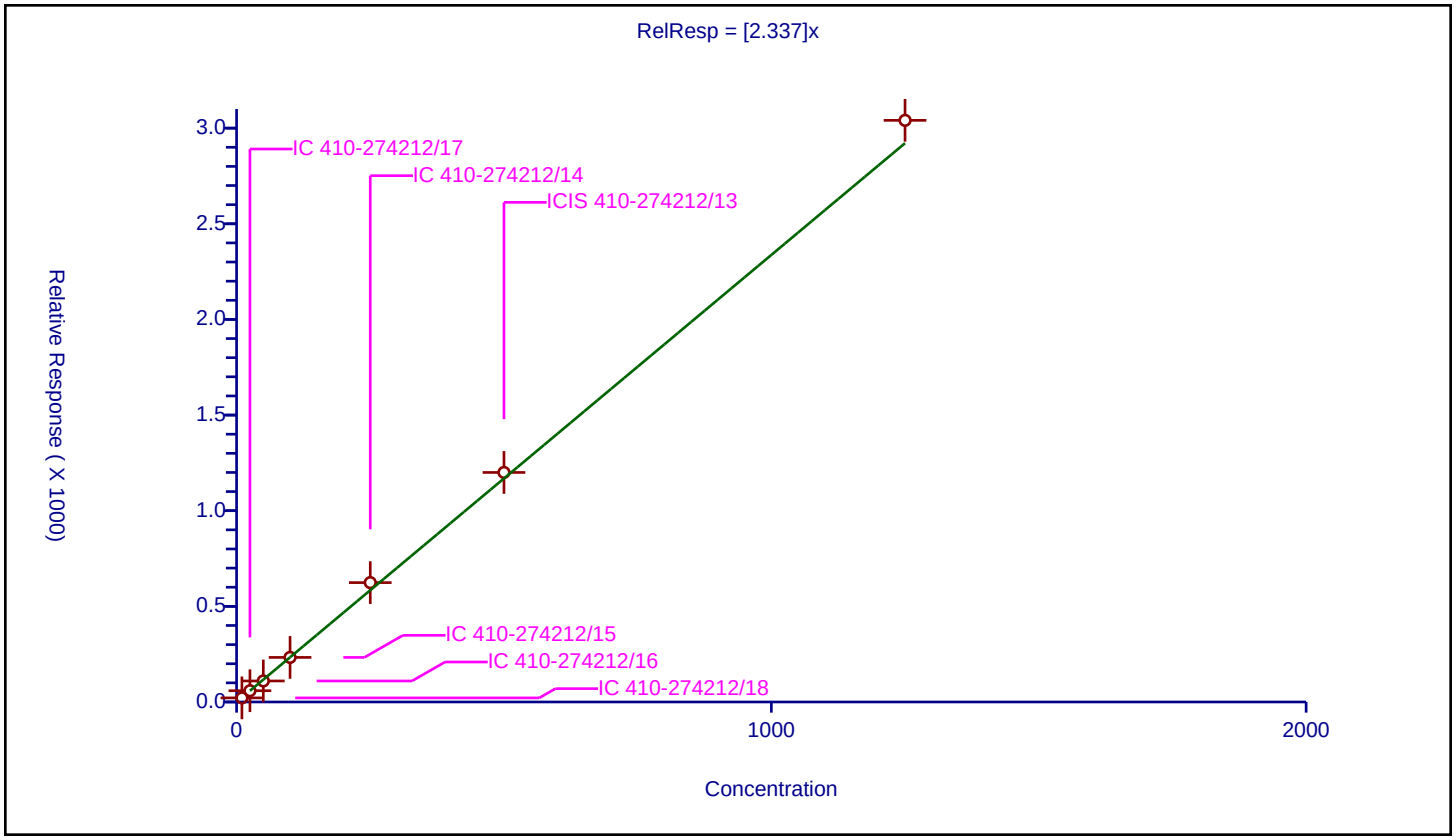
Curve Coefficients

Intercept:	0
Slope:	2.337

Error Coefficients

Standard Error:	4380000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	10.000019	21.468757	50.0	161218.0	2.146872	Y
2	IC 410-274212/17	25.000046	58.84595	50.0	156891.0	2.353834	Y
3	IC 410-274212/16	50.000093	109.994219	50.0	155670.0	2.19988	Y
4	IC 410-274212/15	100.000185	233.06992	50.0	167734.0	2.330695	Y
5	IC 410-274212/14	250.000463	624.107876	50.0	157069.0	2.496427	Y
6	ICIS 410-274212/13	500.000926	1199.954943	50.0	169786.0	2.399905	Y
7	IC 410-274212/12	1250.002314	3040.782039	50.0	159455.0	2.432621	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

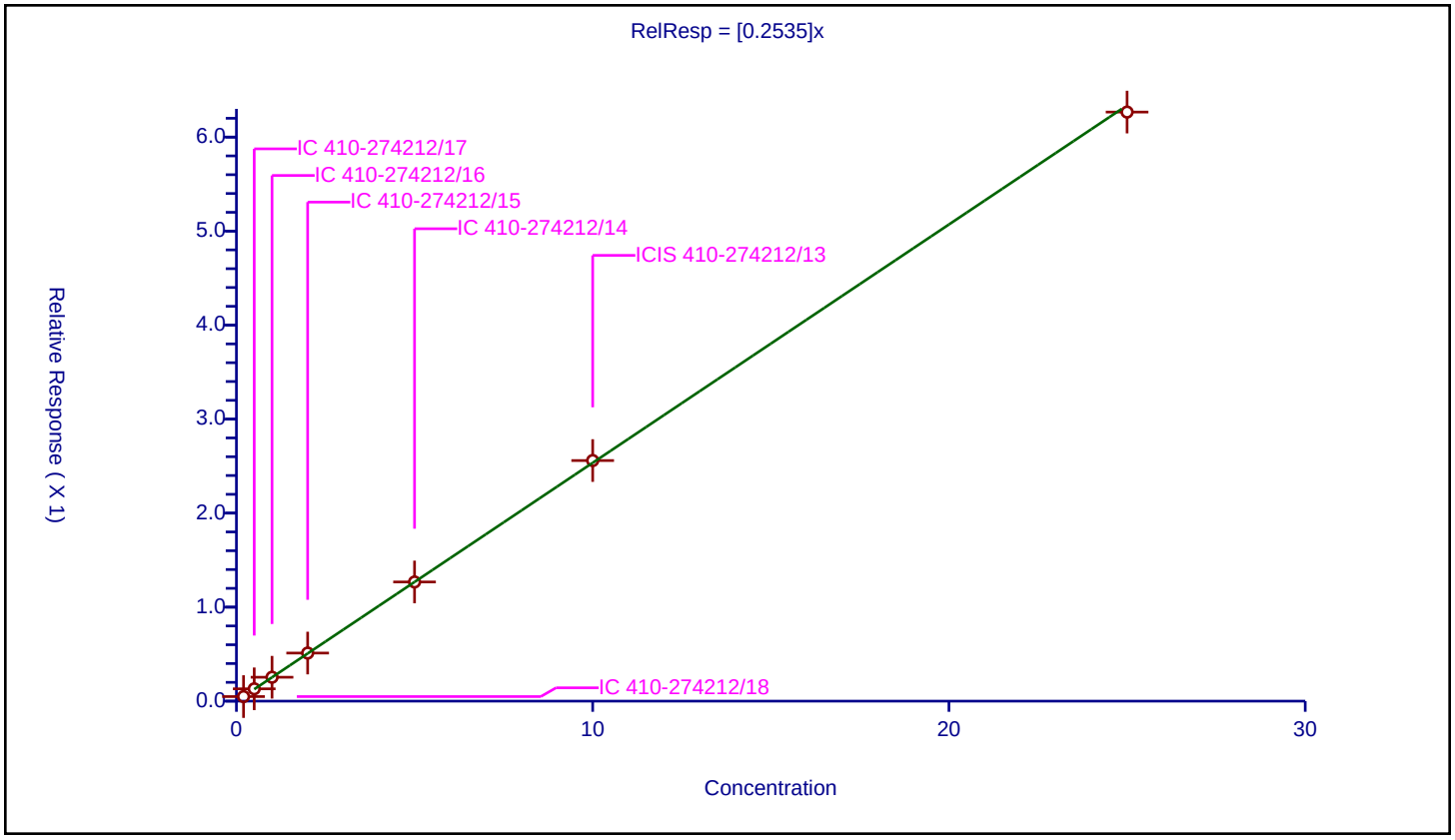
Curve Coefficients

Intercept:	0
Slope:	0.2535

Error Coefficients

Standard Error:	661000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.048457	10.0	2230453.0	0.242283	Y
2	IC 410-274212/17	0.5	0.131136	10.0	2227997.0	0.262271	Y
3	IC 410-274212/16	1.0	0.254275	10.0	2298931.0	0.254275	Y
4	IC 410-274212/15	2.0	0.511483	10.0	2342051.0	0.255742	Y
5	IC 410-274212/14	5.0	1.267693	10.0	2371836.0	0.253539	Y
6	ICIS 410-274212/13	10.0	2.559251	10.0	2357451.0	0.255925	Y
7	IC 410-274212/12	25.0	6.266177	10.0	2340890.0	0.250647	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

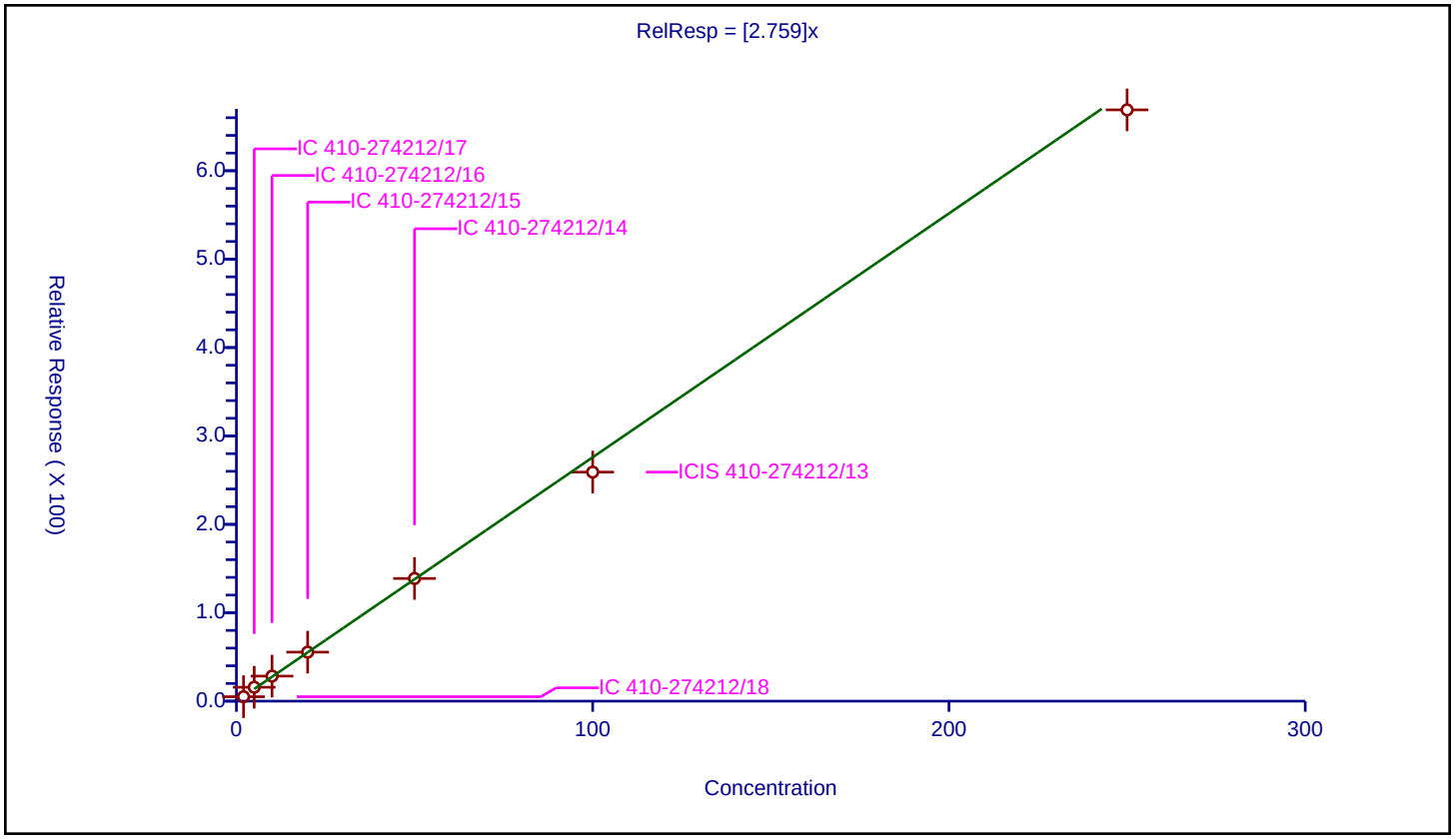
Curve Coefficients

Intercept:	0
Slope:	2.759

Error Coefficients

Standard Error:	962000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	2.0	5.030766	50.0	161218.0	2.515383	Y
2	IC 410-274212/17	5.0	15.733216	50.0	156891.0	3.146643	Y
3	IC 410-274212/16	10.0	28.339757	50.0	155670.0	2.833976	Y
4	IC 410-274212/15	20.0	55.441055	50.0	167734.0	2.772053	Y
5	IC 410-274212/14	50.0	138.76481	50.0	157069.0	2.775296	Y
6	ICIS 410-274212/13	100.0	259.117065	50.0	169786.0	2.591171	Y
7	IC 410-274212/12	250.0	668.892164	50.0	159455.0	2.675569	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

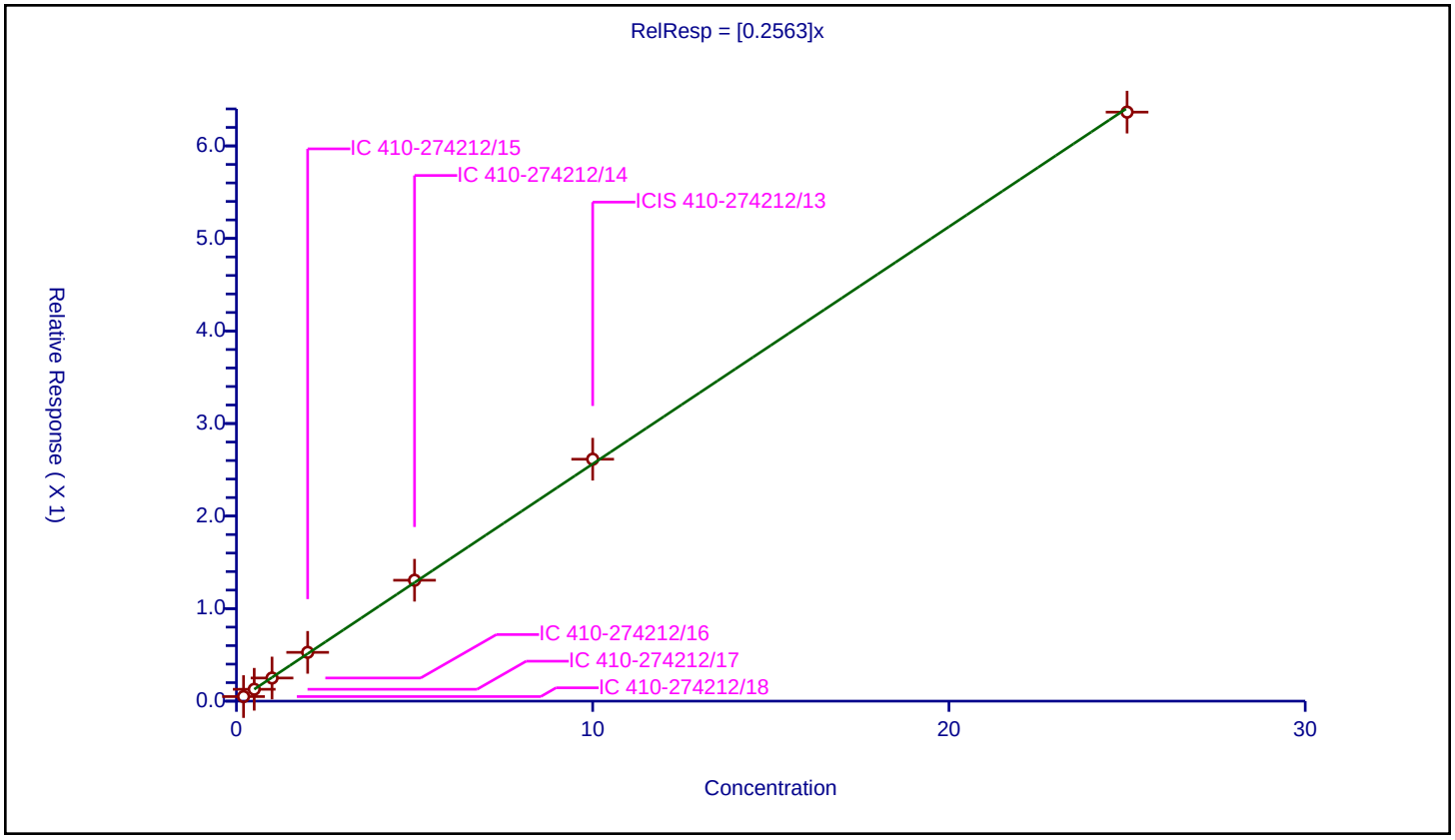
Curve Coefficients

Intercept:	0
Slope:	0.2563

Error Coefficients

Standard Error:	673000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.049416	10.0	2230453.0	0.24708	Y
2	IC 410-274212/17	0.5	0.128102	10.0	2227997.0	0.256203	Y
3	IC 410-274212/16	1.0	0.249999	10.0	2298931.0	0.249999	Y
4	IC 410-274212/15	2.0	0.527217	10.0	2342051.0	0.263609	Y
5	IC 410-274212/14	5.0	1.306465	10.0	2371836.0	0.261293	Y
6	ICIS 410-274212/13	10.0	2.614485	10.0	2357451.0	0.261448	Y
7	IC 410-274212/12	25.0	6.365199	10.0	2340890.0	0.254608	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

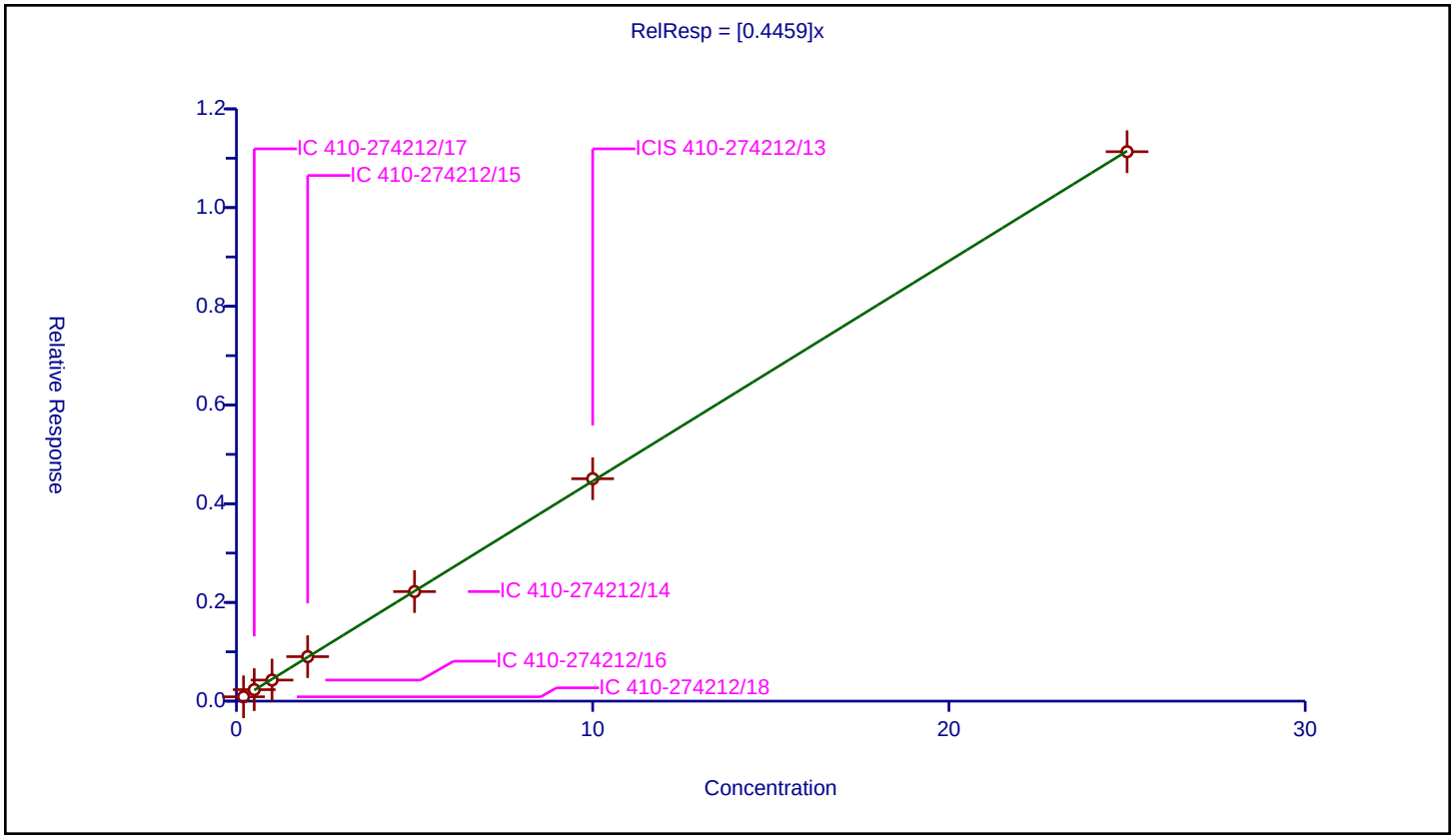
Curve Coefficients

Intercept:	0
Slope:	0.4459

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.087502	10.0	2230453.0	0.437512	Y
2	IC 410-274212/17	0.5	0.23294	10.0	2227997.0	0.46588	Y
3	IC 410-274212/16	1.0	0.42712	10.0	2298931.0	0.42712	Y
4	IC 410-274212/15	2.0	0.901513	10.0	2342051.0	0.450757	Y
5	IC 410-274212/14	5.0	2.219618	10.0	2371836.0	0.443924	Y
6	ICIS 410-274212/13	10.0	4.506388	10.0	2357451.0	0.450639	Y
7	IC 410-274212/12	25.0	11.132723	10.0	2340890.0	0.445309	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

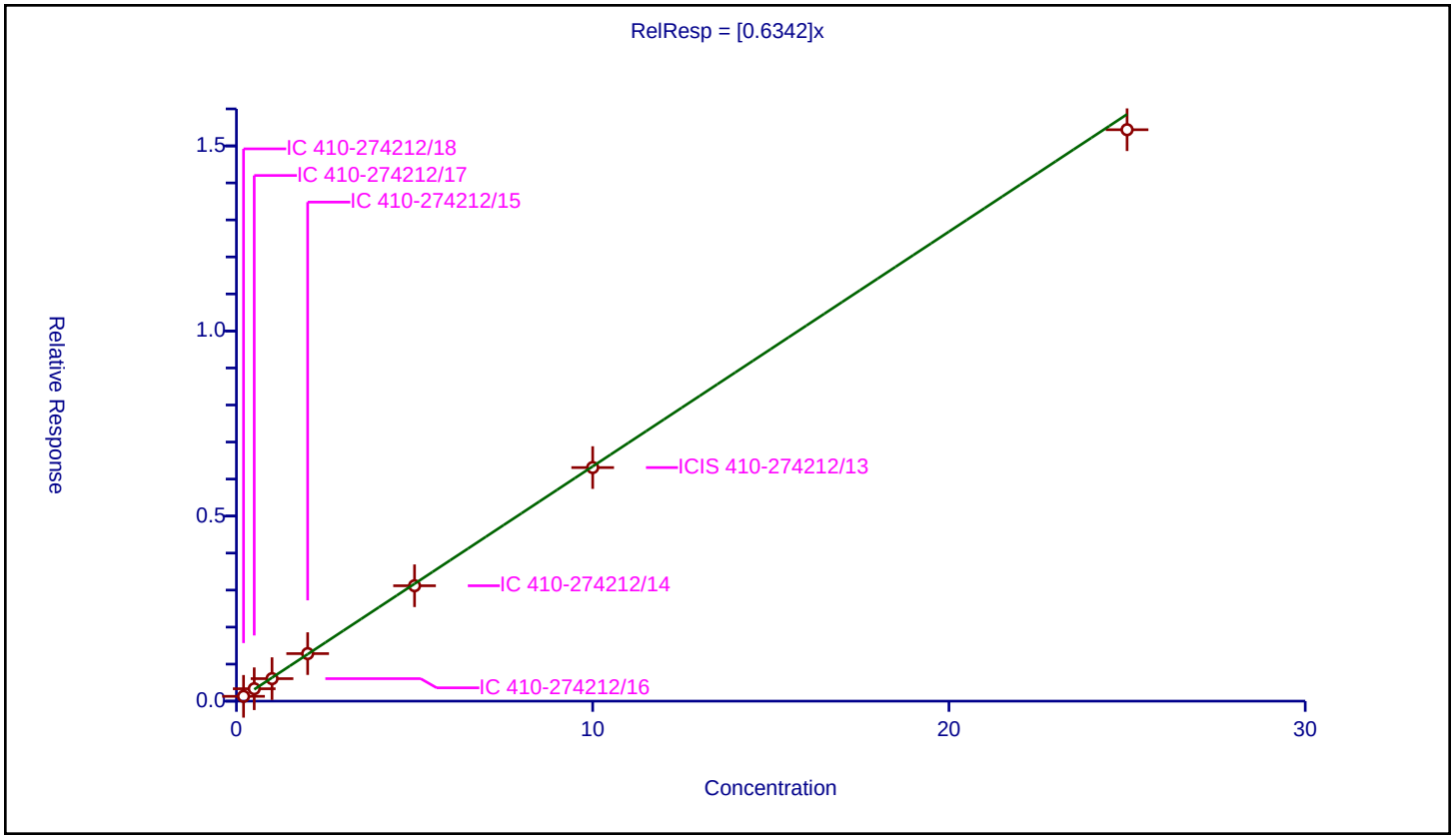
Curve Coefficients

Intercept:	0
Slope:	0.6342

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.129534	10.0	2230453.0	0.647671	Y
2	IC 410-274212/17	0.5	0.334924	10.0	2227997.0	0.669848	Y
3	IC 410-274212/16	1.0	0.607883	10.0	2298931.0	0.607883	Y
4	IC 410-274212/15	2.0	1.283883	10.0	2342051.0	0.641942	Y
5	IC 410-274212/14	5.0	3.11713	10.0	2371836.0	0.623426	Y
6	ICIS 410-274212/13	10.0	6.310019	10.0	2357451.0	0.631002	Y
7	IC 410-274212/12	25.0	15.437385	10.0	2340890.0	0.617495	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

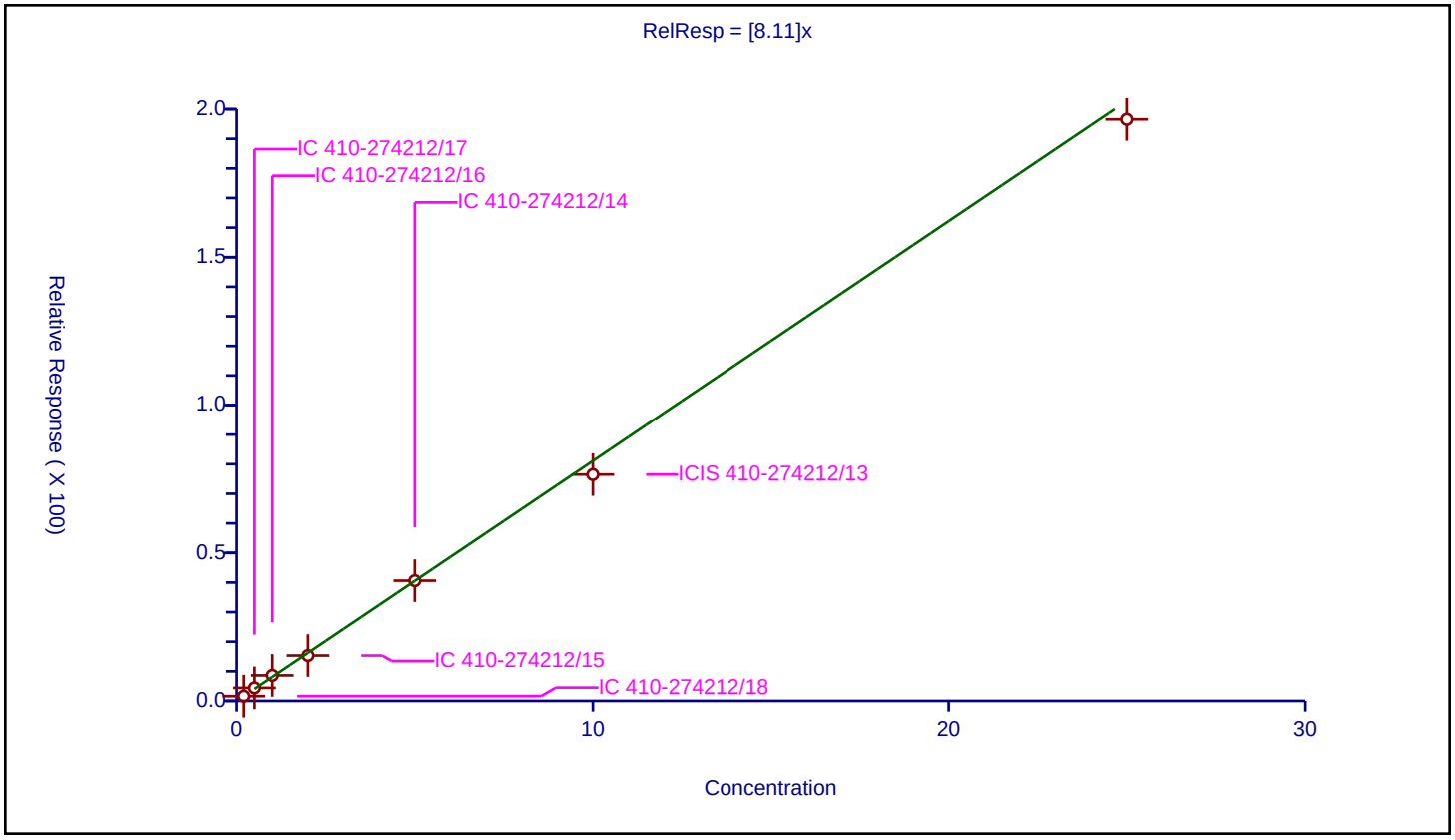
Curve Coefficients

Intercept:	0
Slope:	8.11

Error Coefficients

Standard Error:	283000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	1.609312	50.0	161218.0	8.046558	Y
2	IC 410-274212/17	0.5	4.398595	50.0	156891.0	8.79719	Y
3	IC 410-274212/16	1.0	8.622085	50.0	155670.0	8.622085	Y
4	IC 410-274212/15	2.0	15.330523	50.0	167734.0	7.665262	Y
5	IC 410-274212/14	5.0	40.631188	50.0	157069.0	8.126238	Y
6	ICIS 410-274212/13	10.0	76.491584	50.0	169786.0	7.649158	Y
7	IC 410-274212/12	25.0	196.560472	50.0	159455.0	7.862419	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

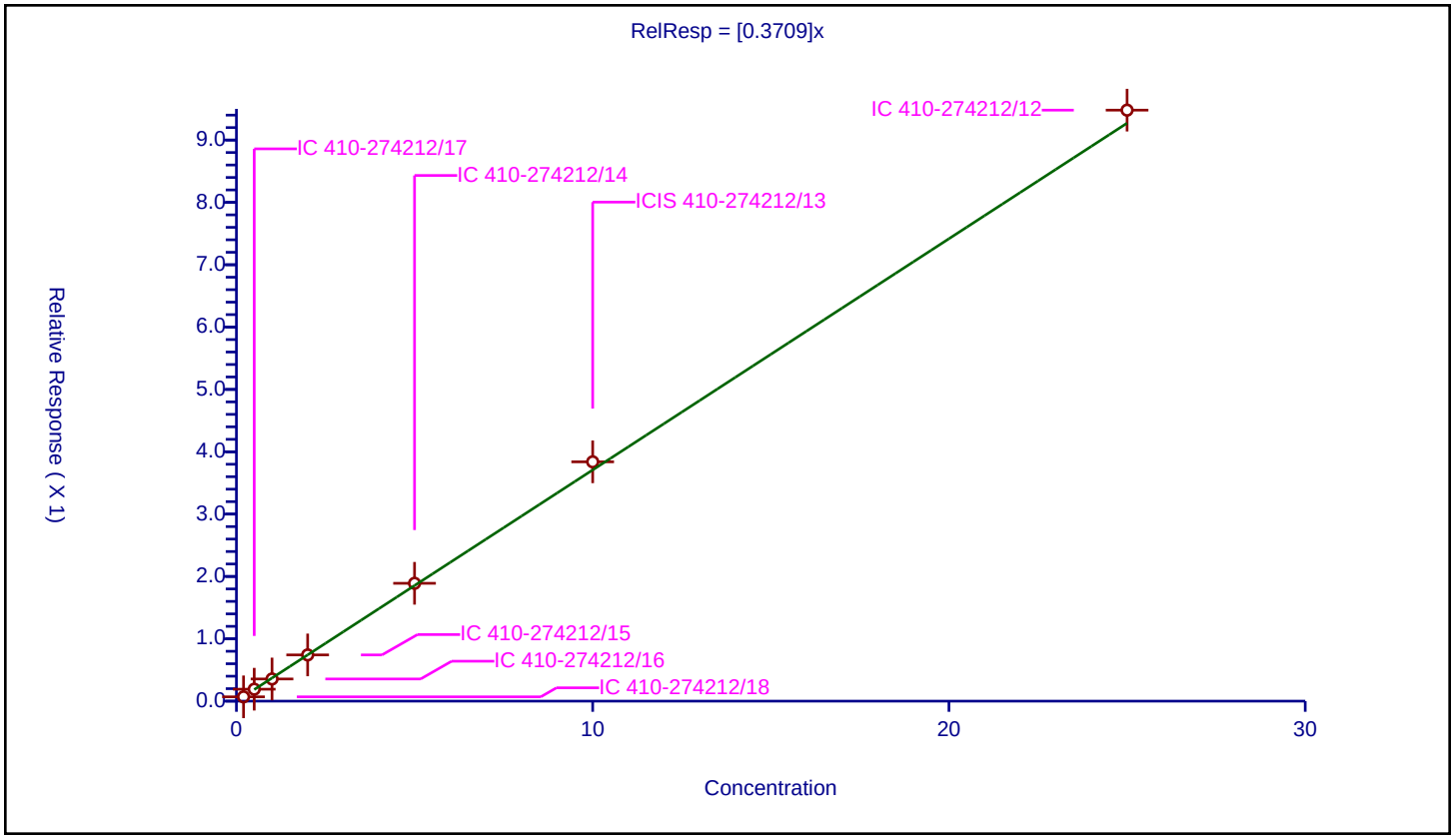
Curve Coefficients

Intercept:	0
Slope:	0.3709

Error Coefficients

Standard Error:	999000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.069107	10.0	2230453.0	0.345535	Y
2	IC 410-274212/17	0.5	0.191477	10.0	2227997.0	0.382954	Y
3	IC 410-274212/16	1.0	0.355748	10.0	2298931.0	0.355748	Y
4	IC 410-274212/15	2.0	0.741419	10.0	2342051.0	0.370709	Y
5	IC 410-274212/14	5.0	1.890105	10.0	2371836.0	0.378021	Y
6	ICIS 410-274212/13	10.0	3.838871	10.0	2357451.0	0.383887	Y
7	IC 410-274212/12	25.0	9.479732	10.0	2340890.0	0.379189	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

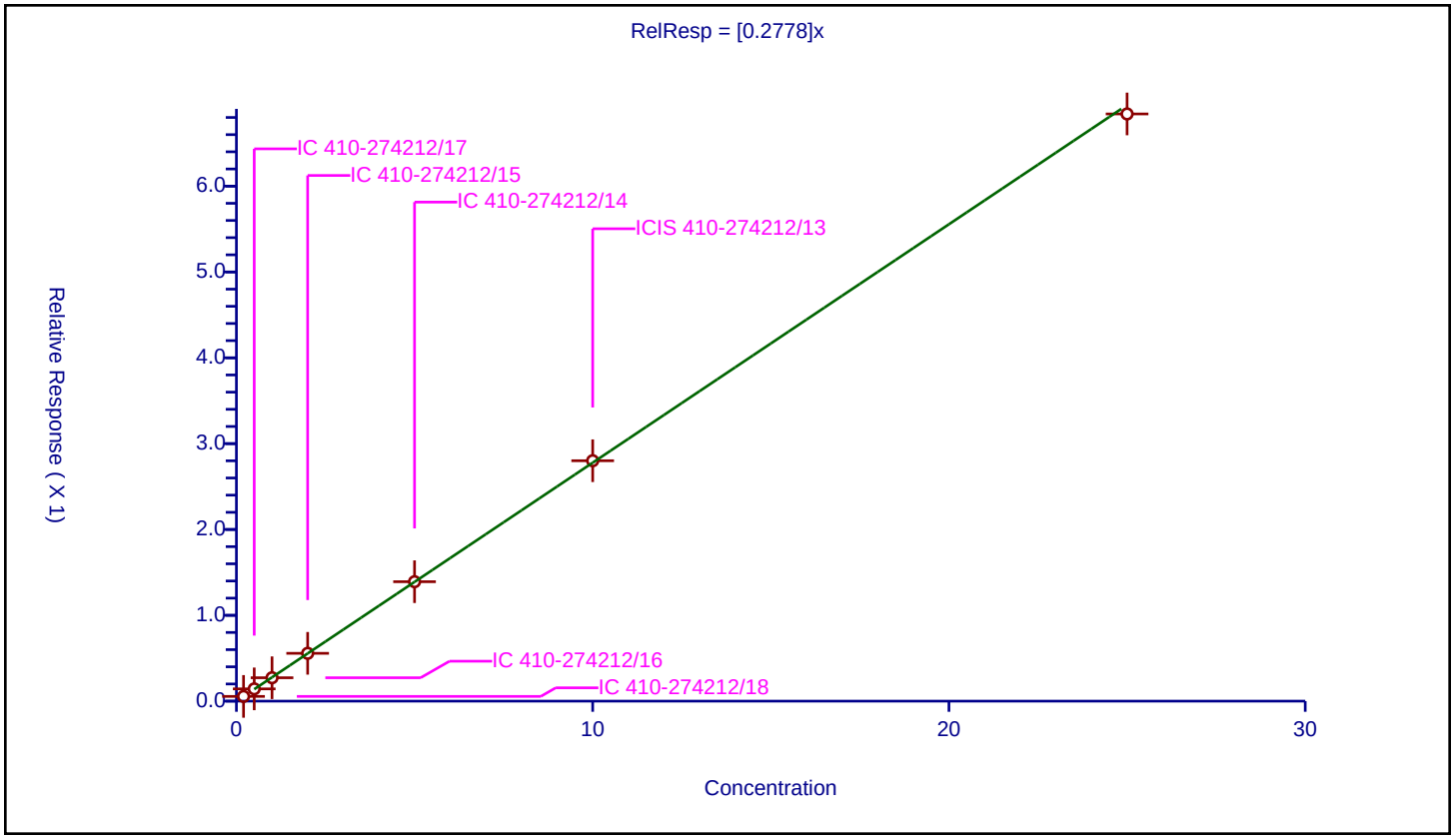
Curve Coefficients

Intercept:	0
Slope:	0.2778

Error Coefficients

Standard Error:	722000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.055146	10.0	2230453.0	0.275729	Y
2	IC 410-274212/17	0.5	0.142783	10.0	2227997.0	0.285566	Y
3	IC 410-274212/16	1.0	0.272714	10.0	2298931.0	0.272714	Y
4	IC 410-274212/15	2.0	0.557012	10.0	2342051.0	0.278506	Y
5	IC 410-274212/14	5.0	1.391483	10.0	2371836.0	0.278297	Y
6	ICIS 410-274212/13	10.0	2.800915	10.0	2357451.0	0.280092	Y
7	IC 410-274212/12	25.0	6.841184	10.0	2340890.0	0.273647	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

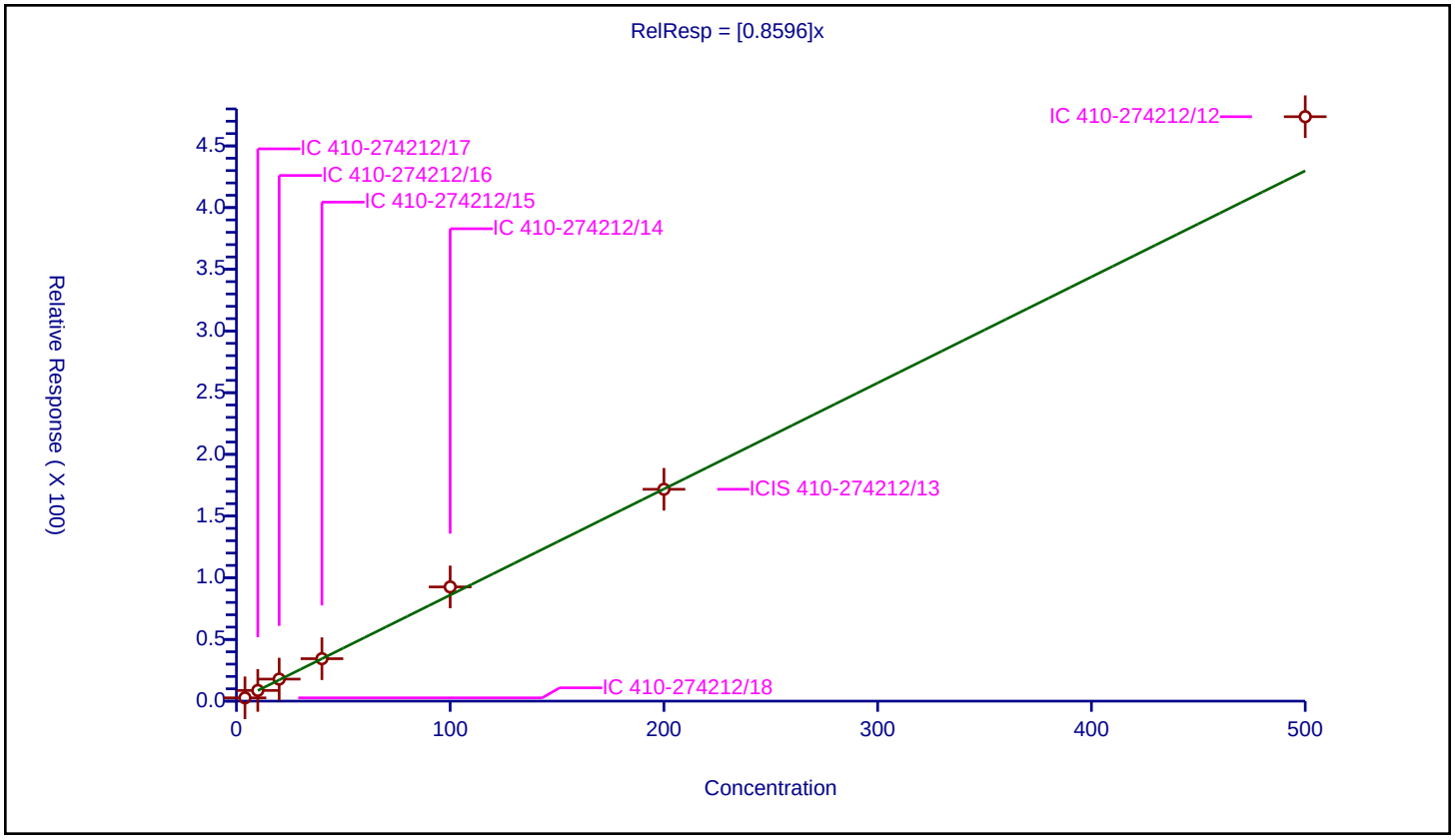
Curve Coefficients

Intercept:	0
Slope:	0.8596

Error Coefficients

Standard Error:	674000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	4.0	2.664405	50.0	161218.0	0.666101	Y
2	IC 410-274212/17	10.0	8.672263	50.0	156891.0	0.867226	Y
3	IC 410-274212/16	20.0	17.857969	50.0	155670.0	0.892898	Y
4	IC 410-274212/15	40.0	34.388079	50.0	167734.0	0.859702	Y
5	IC 410-274212/14	100.0	92.568871	50.0	157069.0	0.925689	Y
6	ICIS 410-274212/13	200.0	171.697902	50.0	169786.0	0.85849	Y
7	IC 410-274212/12	500.0	473.681917	50.0	159455.0	0.947364	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

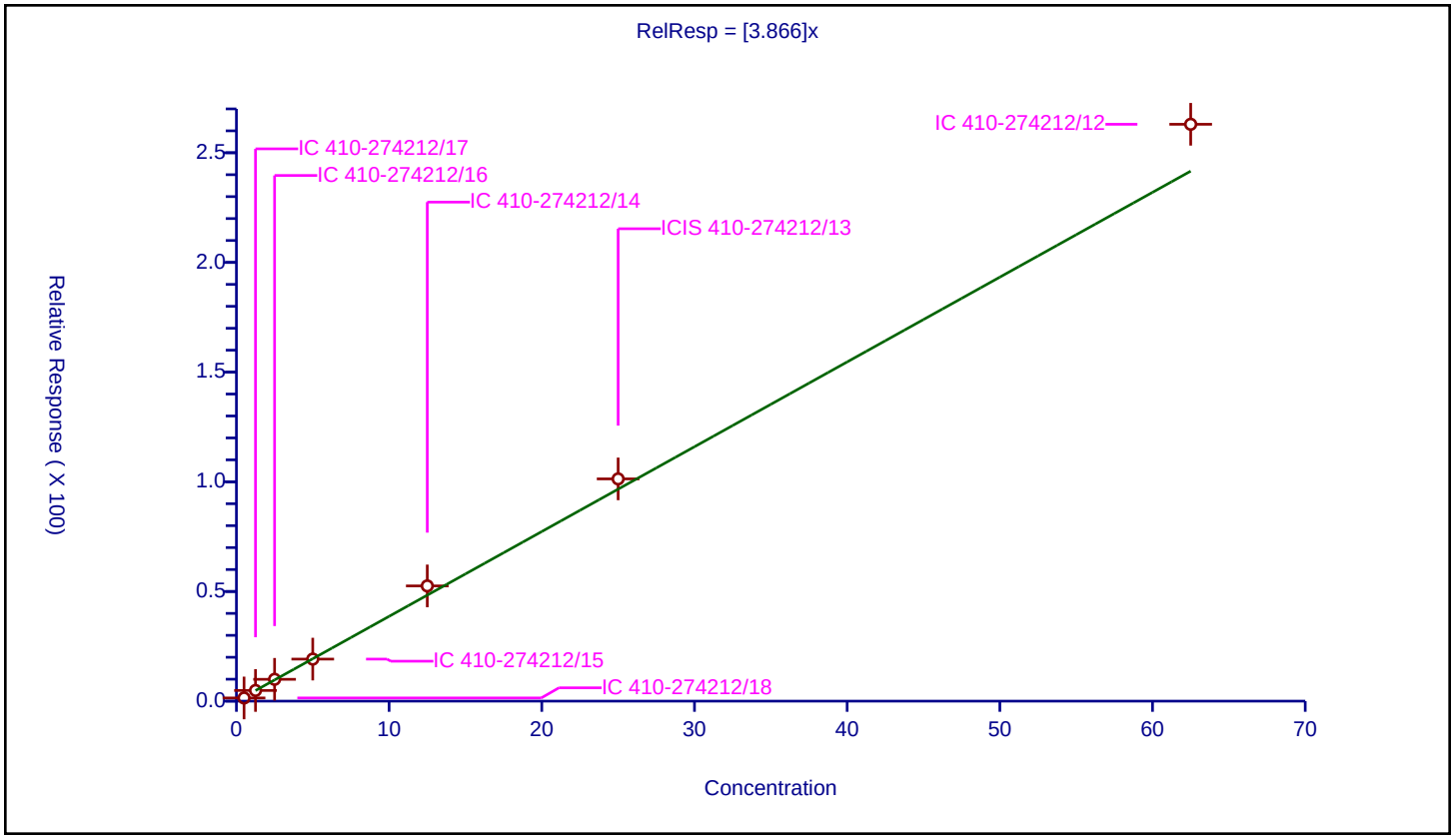
Curve Coefficients

Intercept:	0
Slope:	3.866

Error Coefficients

Standard Error:	377000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.5	1.44928	50.0	161218.0	2.89856	Y
2	IC 410-274212/17	1.25	4.859743	50.0	156891.0	3.887795	Y
3	IC 410-274212/16	2.5	9.948288	50.0	155670.0	3.979315	Y
4	IC 410-274212/15	5.0	19.166359	50.0	167734.0	3.833272	Y
5	IC 410-274212/14	12.5	52.535192	50.0	157069.0	4.202815	Y
6	ICIS 410-274212/13	25.0	101.320191	50.0	169786.0	4.052808	Y
7	IC 410-274212/12	62.5	262.987677	50.0	159455.0	4.207803	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

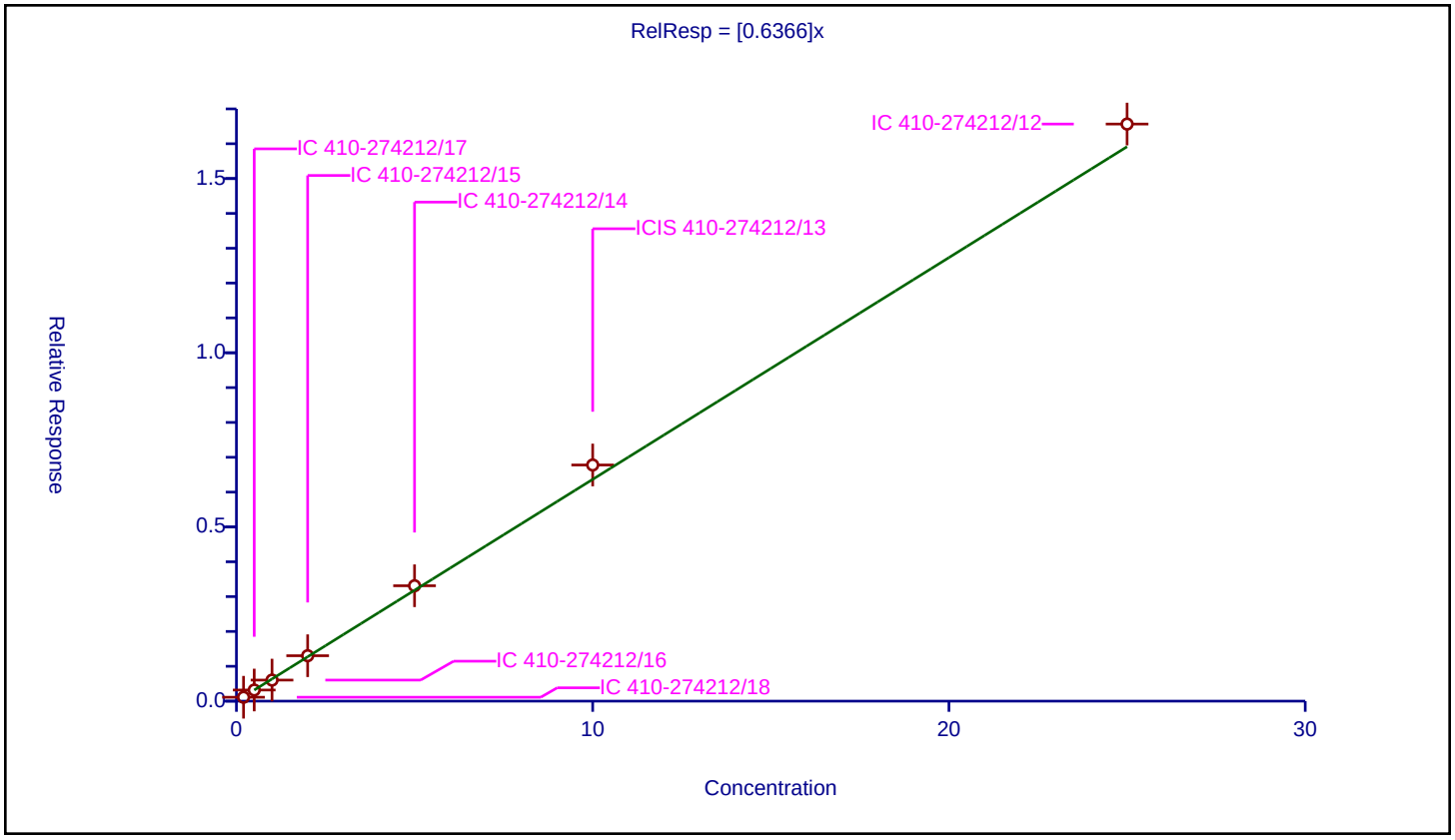
Curve Coefficients

Intercept:	0
Slope:	0.6366

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.111906	10.0	2230453.0	0.559528	Y
2	IC 410-274212/17	0.5	0.318928	10.0	2227997.0	0.637855	Y
3	IC 410-274212/16	1.0	0.60405	10.0	2298931.0	0.60405	Y
4	IC 410-274212/15	2.0	1.303682	10.0	2342051.0	0.651841	Y
5	IC 410-274212/14	5.0	3.312269	10.0	2371836.0	0.662454	Y
6	ICIS 410-274212/13	10.0	6.778817	10.0	2357451.0	0.677882	Y
7	IC 410-274212/12	25.0	16.564956	10.0	2340890.0	0.662598	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

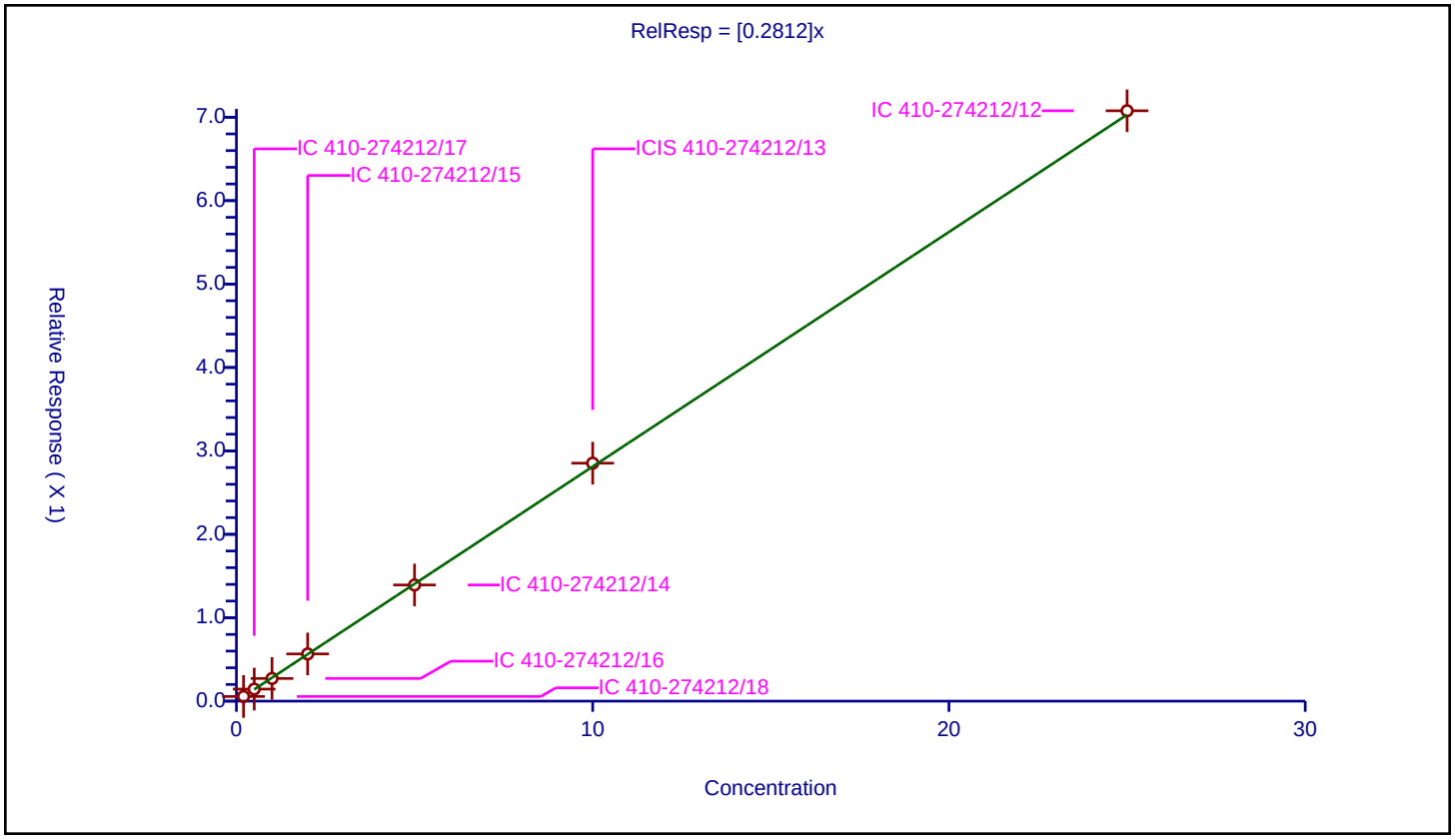
Curve Coefficients

Intercept:	0
Slope:	0.2812

Error Coefficients

Standard Error:	745000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.055612	10.0	2230453.0	0.27806	Y
2	IC 410-274212/17	0.5	0.144367	10.0	2227997.0	0.288735	Y
3	IC 410-274212/16	1.0	0.271865	10.0	2298931.0	0.271865	Y
4	IC 410-274212/15	2.0	0.56579	10.0	2342051.0	0.282895	Y
5	IC 410-274212/14	5.0	1.392748	10.0	2371836.0	0.27855	Y
6	ICIS 410-274212/13	10.0	2.852882	10.0	2357451.0	0.285288	Y
7	IC 410-274212/12	25.0	7.077197	10.0	2340890.0	0.283088	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

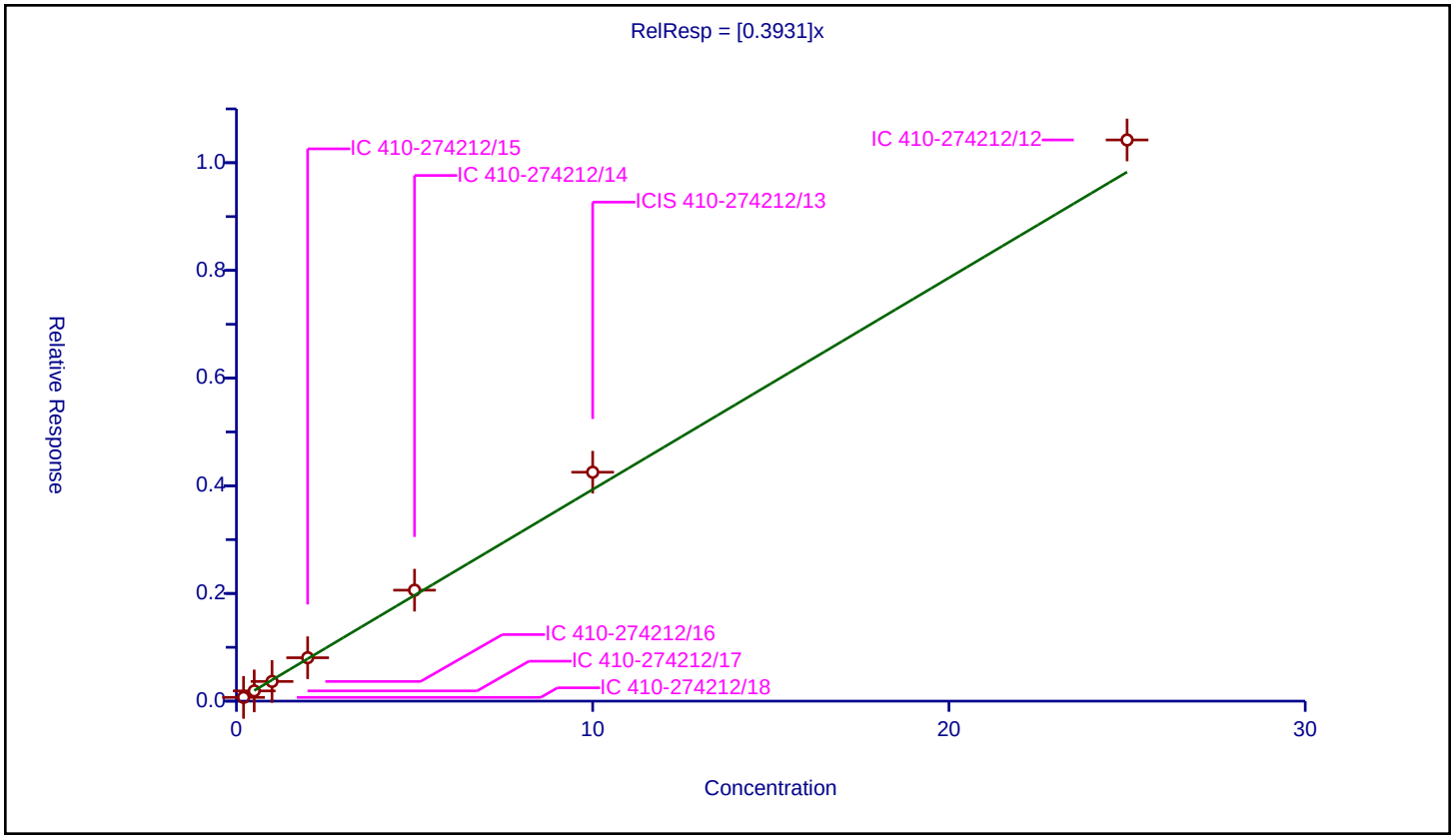
Curve Coefficients

Intercept:	0
Slope:	0.3931

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.069694	10.0	2230453.0	0.348472	Y
2	IC 410-274212/17	0.5	0.190072	10.0	2227997.0	0.380144	Y
3	IC 410-274212/16	1.0	0.365927	10.0	2298931.0	0.365927	Y
4	IC 410-274212/15	2.0	0.80593	10.0	2342051.0	0.402965	Y
5	IC 410-274212/14	5.0	2.061146	10.0	2371836.0	0.412229	Y
6	ICIS 410-274212/13	10.0	4.25216	10.0	2357451.0	0.425216	Y
7	IC 410-274212/12	25.0	10.423164	10.0	2340890.0	0.416927	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

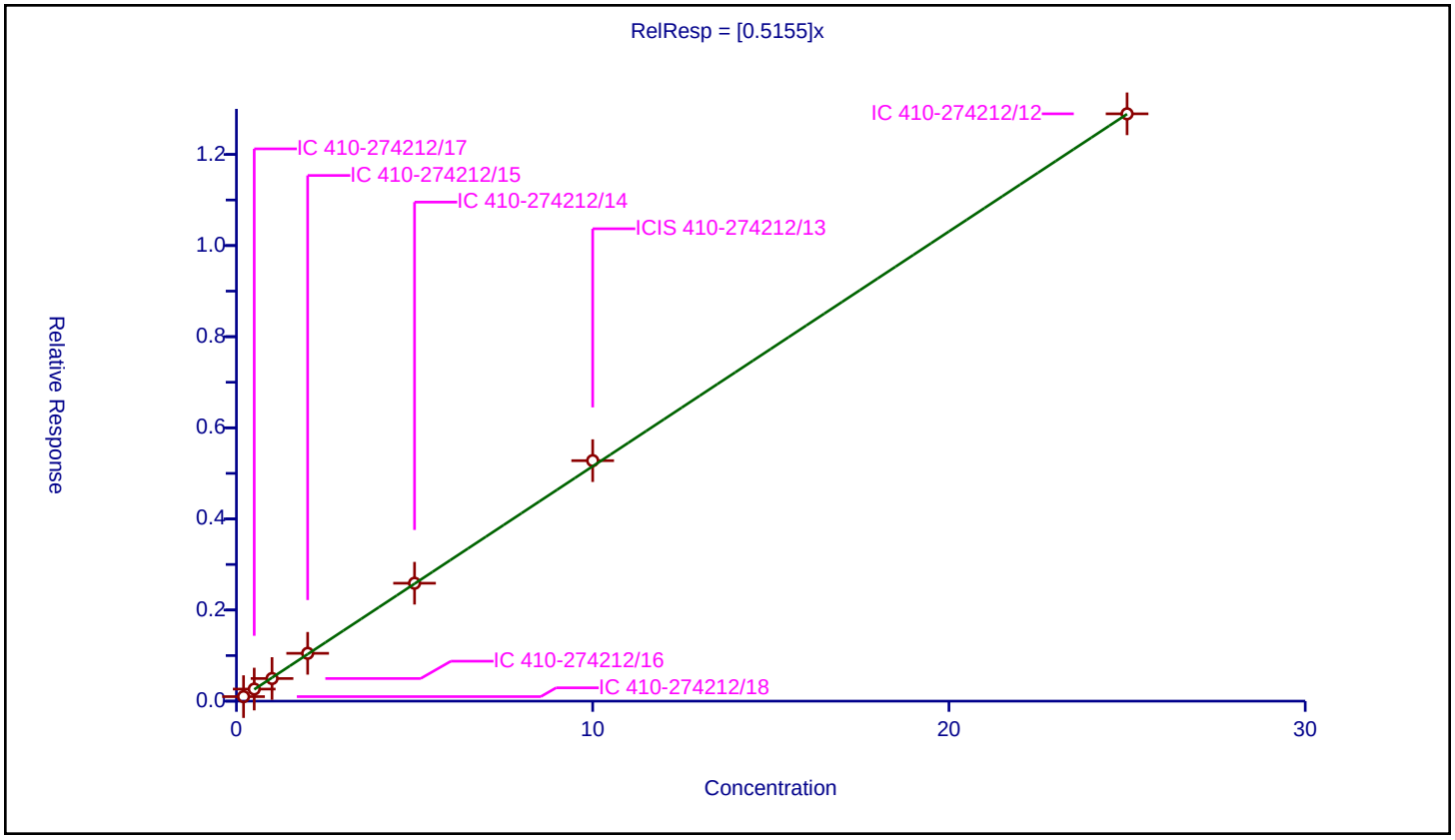
Curve Coefficients

Intercept:	0
Slope:	0.5155

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.099168	10.0	2230453.0	0.495841	Y
2	IC 410-274212/17	0.5	0.264866	10.0	2227997.0	0.529731	Y
3	IC 410-274212/16	1.0	0.496696	10.0	2298931.0	0.496696	Y
4	IC 410-274212/15	2.0	1.04961	10.0	2342051.0	0.524805	Y
5	IC 410-274212/14	5.0	2.588235	10.0	2371836.0	0.517647	Y
6	ICIS 410-274212/13	10.0	5.278769	10.0	2357451.0	0.527877	Y
7	IC 410-274212/12	25.0	12.891708	10.0	2340890.0	0.515668	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

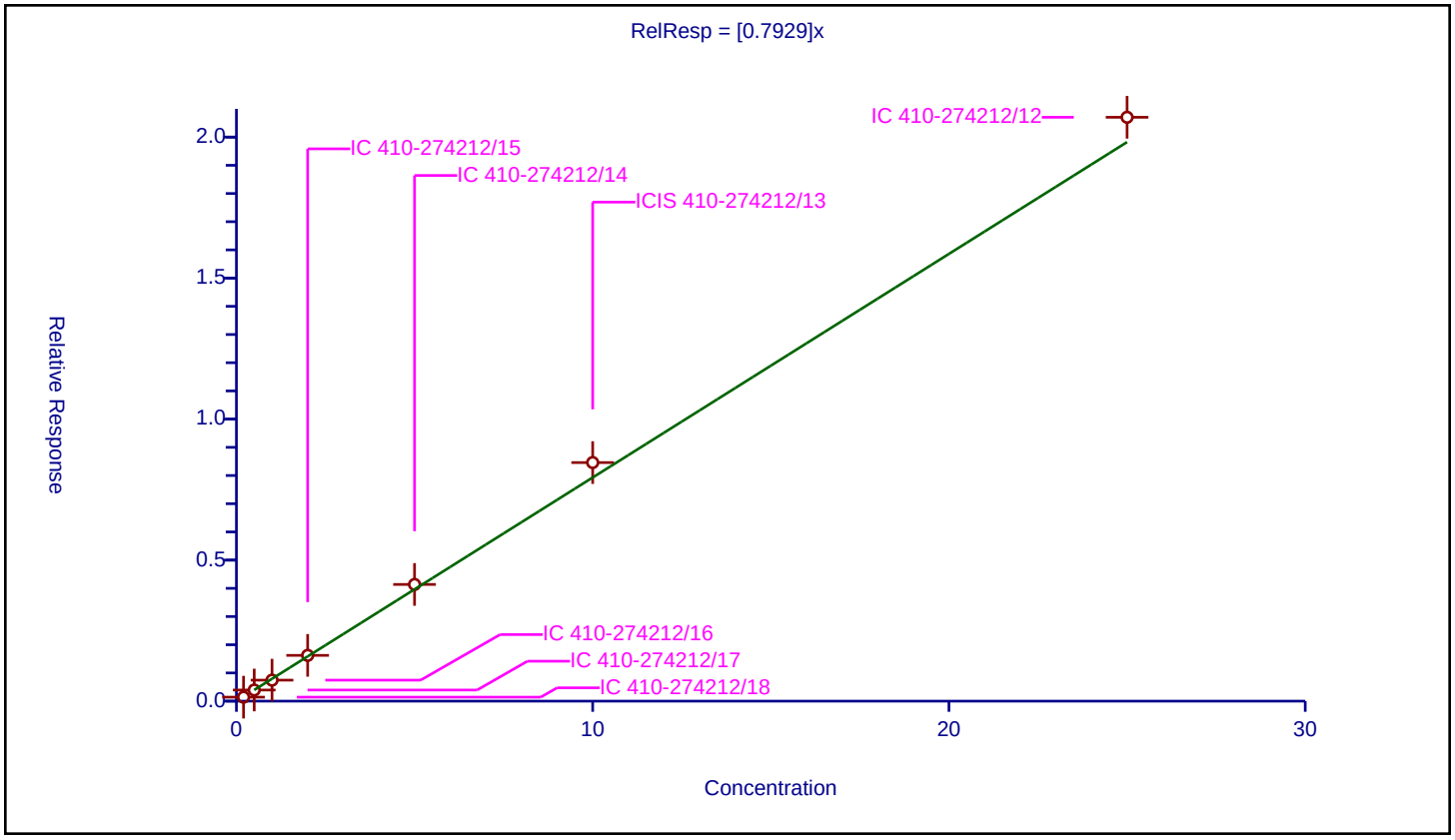
Curve Coefficients

Intercept:	0
Slope:	0.7929

Error Coefficients

Standard Error:	2180000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.14081	10.0	2230453.0	0.70405	Y
2	IC 410-274212/17	0.5	0.394327	10.0	2227997.0	0.788655	Y
3	IC 410-274212/16	1.0	0.744785	10.0	2298931.0	0.744785	Y
4	IC 410-274212/15	2.0	1.622817	10.0	2342051.0	0.811408	Y
5	IC 410-274212/14	5.0	4.137453	10.0	2371836.0	0.827491	Y
6	ICIS 410-274212/13	10.0	8.459501	10.0	2357451.0	0.84595	Y
7	IC 410-274212/12	25.0	20.702532	10.0	2340890.0	0.828101	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

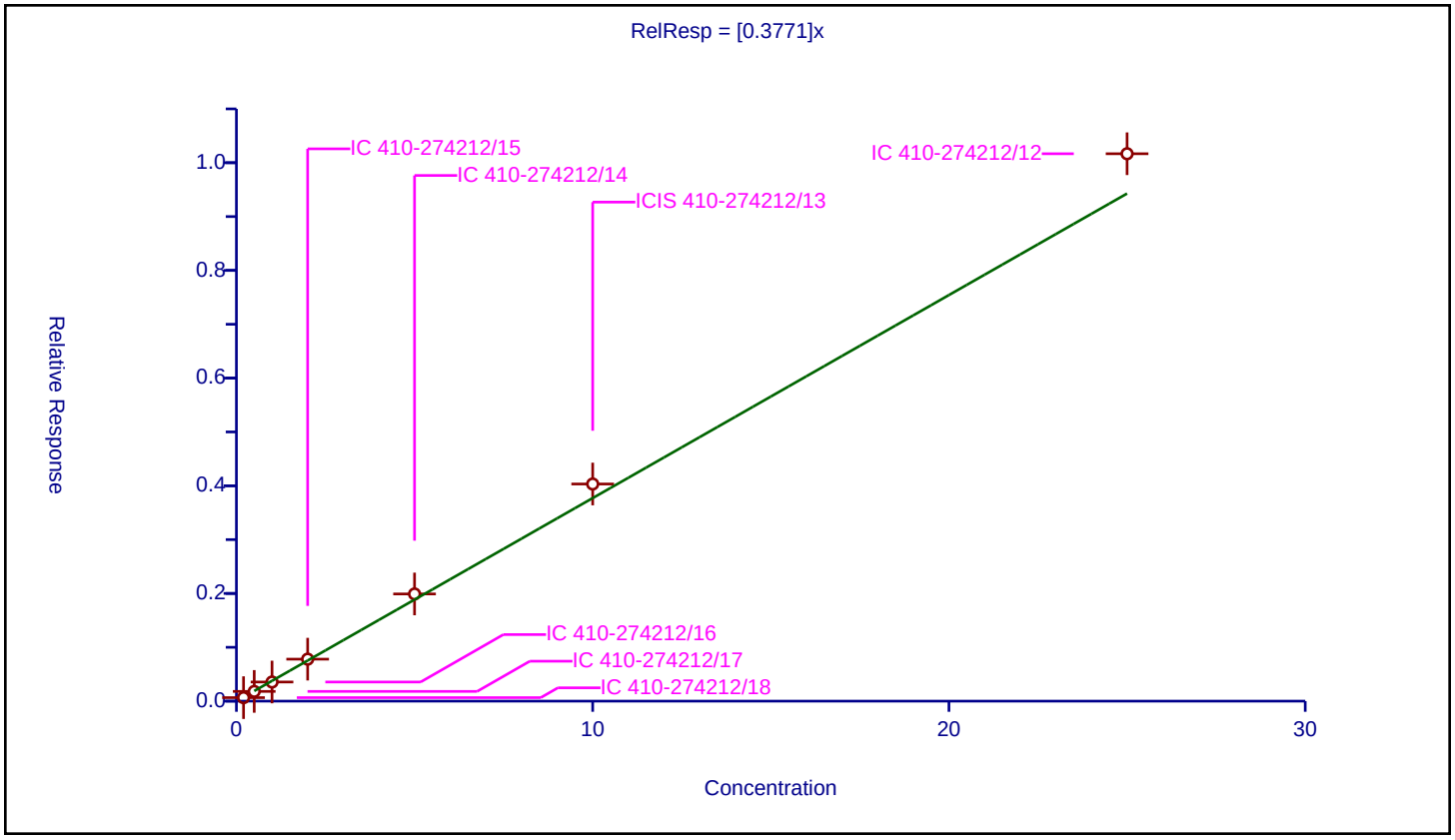
Curve Coefficients

Intercept:	0
Slope:	0.3771

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.064978	10.0	2230453.0	0.324889	Y
2	IC 410-274212/17	0.5	0.180786	10.0	2227997.0	0.361571	Y
3	IC 410-274212/16	1.0	0.3553	10.0	2298931.0	0.3553	Y
4	IC 410-274212/15	2.0	0.779987	10.0	2342051.0	0.389994	Y
5	IC 410-274212/14	5.0	1.990795	10.0	2371836.0	0.398159	Y
6	ICIS 410-274212/13	10.0	4.032835	10.0	2357451.0	0.403283	Y
7	IC 410-274212/12	25.0	10.166808	10.0	2340890.0	0.406672	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

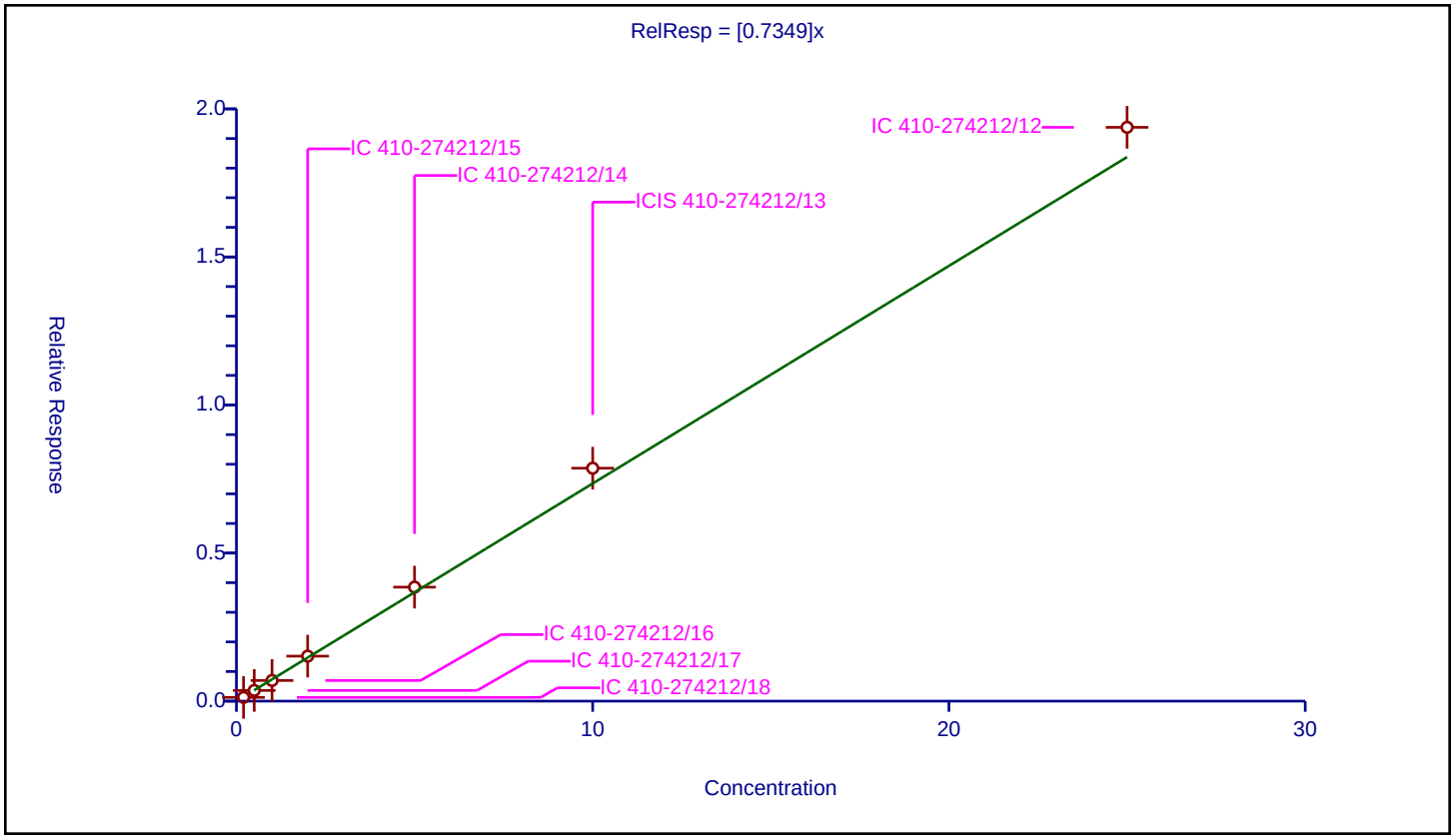
Curve Coefficients

Intercept:	0
Slope:	0.7349

Error Coefficients

Standard Error:	2040000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.126423	10.0	2230453.0	0.632114	Y
2	IC 410-274212/17	0.5	0.361904	10.0	2227997.0	0.723807	Y
3	IC 410-274212/16	1.0	0.697189	10.0	2298931.0	0.697189	Y
4	IC 410-274212/15	2.0	1.519237	10.0	2342051.0	0.759618	Y
5	IC 410-274212/14	5.0	3.849967	10.0	2371836.0	0.769993	Y
6	ICIS 410-274212/13	10.0	7.866344	10.0	2357451.0	0.786634	Y
7	IC 410-274212/12	25.0	19.377224	10.0	2340890.0	0.775089	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

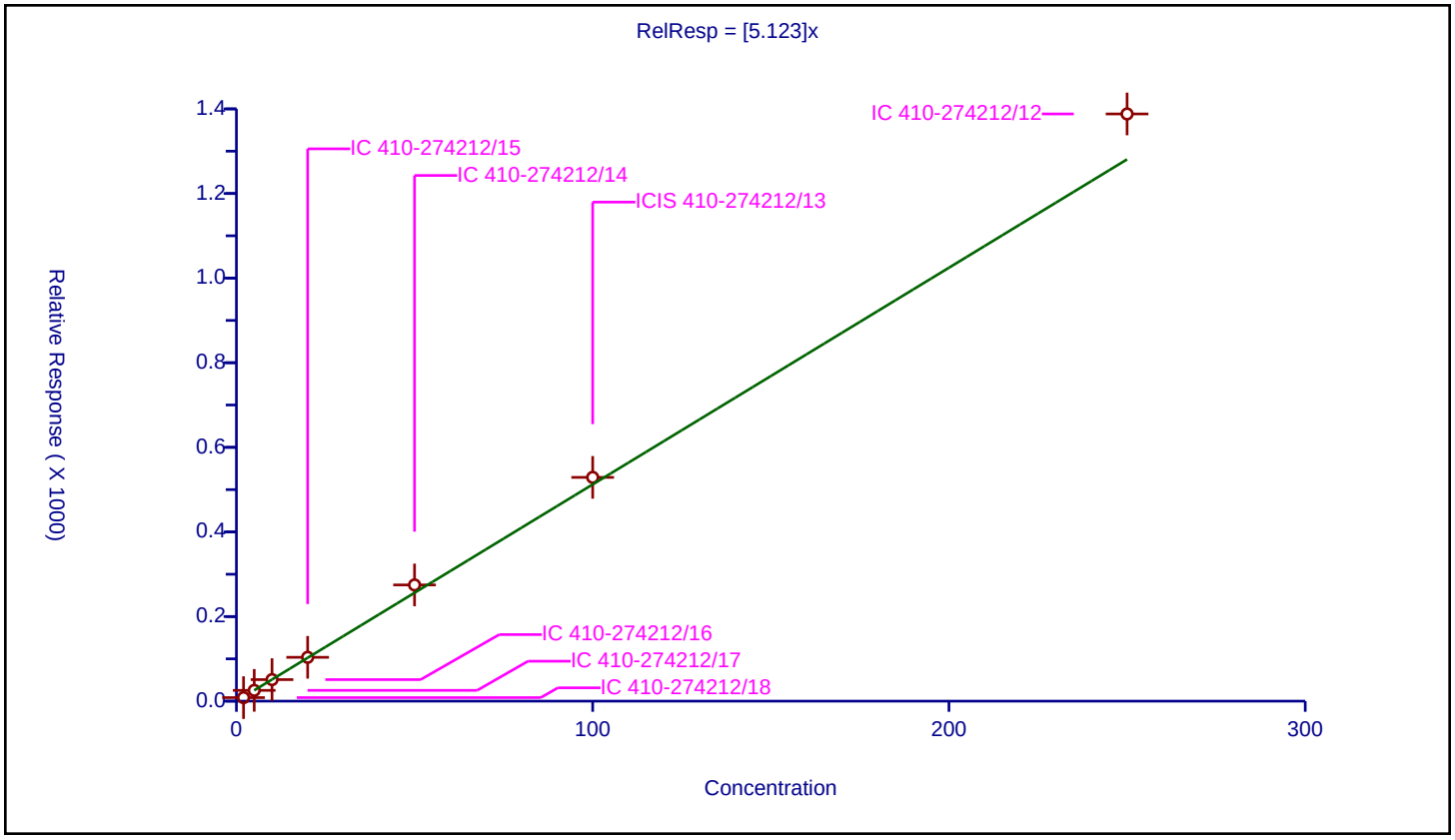
Curve Coefficients

Intercept:	0
Slope:	5.123

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	2.0	8.320411	50.0	161218.0	4.160205	Y
2	IC 410-274212/17	5.0	25.475011	50.0	156891.0	5.095002	Y
3	IC 410-274212/16	10.0	50.872037	50.0	155670.0	5.087204	Y
4	IC 410-274212/15	20.0	103.594382	50.0	167734.0	5.179719	Y
5	IC 410-274212/14	50.0	274.744221	50.0	157069.0	5.494884	Y
6	ICIS 410-274212/13	100.0	528.955862	50.0	169786.0	5.289559	Y
7	IC 410-274212/12	250.0	1388.053056	50.0	159455.0	5.552212	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

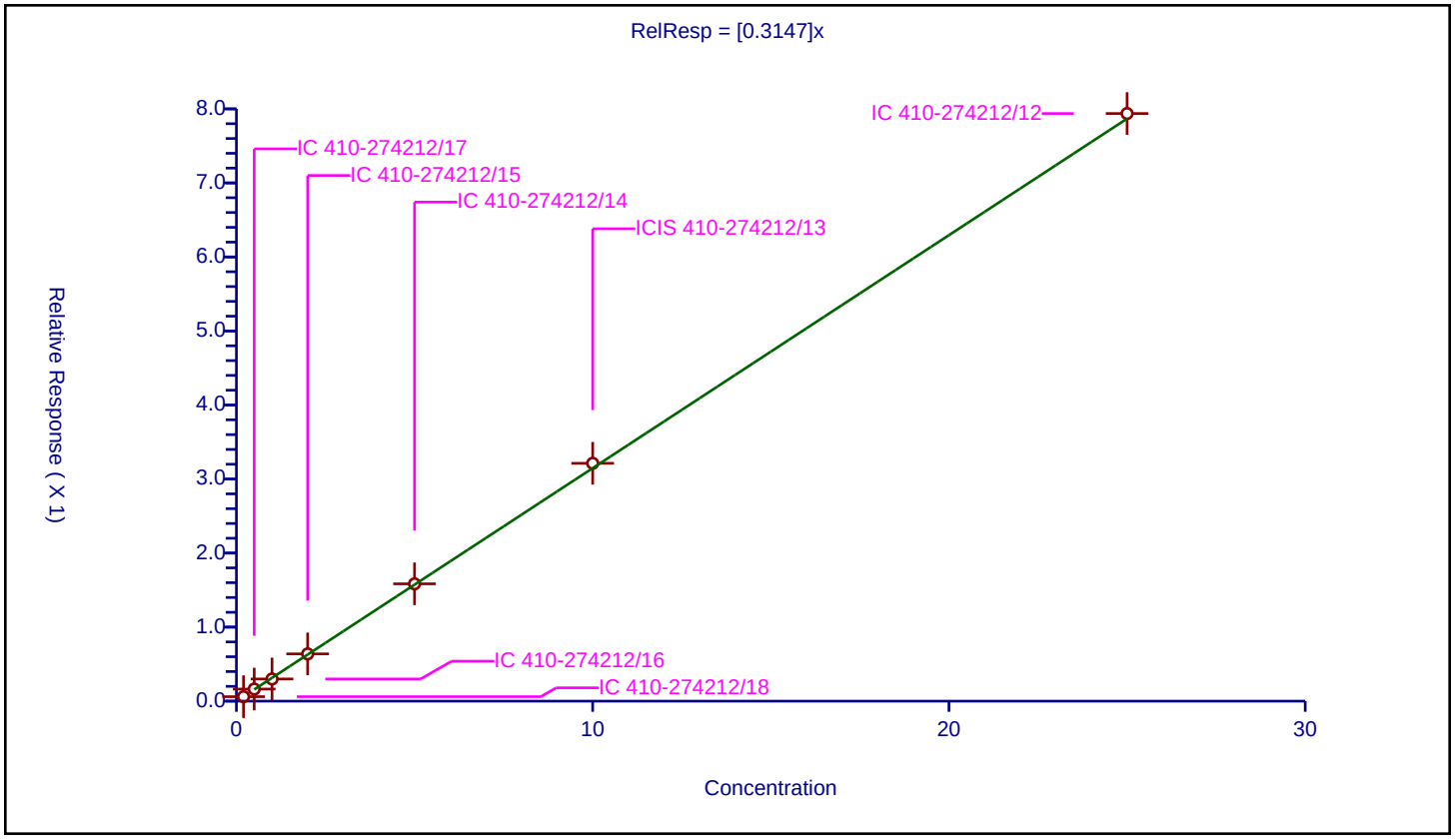
Curve Coefficients

Intercept:	0
Slope:	0.3147

Error Coefficients

Standard Error:	836000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.060436	10.0	2230453.0	0.302181	Y
2	IC 410-274212/17	0.5	0.163178	10.0	2227997.0	0.326356	Y
3	IC 410-274212/16	1.0	0.299635	10.0	2298931.0	0.299635	Y
4	IC 410-274212/15	2.0	0.638381	10.0	2342051.0	0.31919	Y
5	IC 410-274212/14	5.0	1.584772	10.0	2371836.0	0.316954	Y
6	ICIS 410-274212/13	10.0	3.212432	10.0	2357451.0	0.321243	Y
7	IC 410-274212/12	25.0	7.93749	10.0	2340890.0	0.3175	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

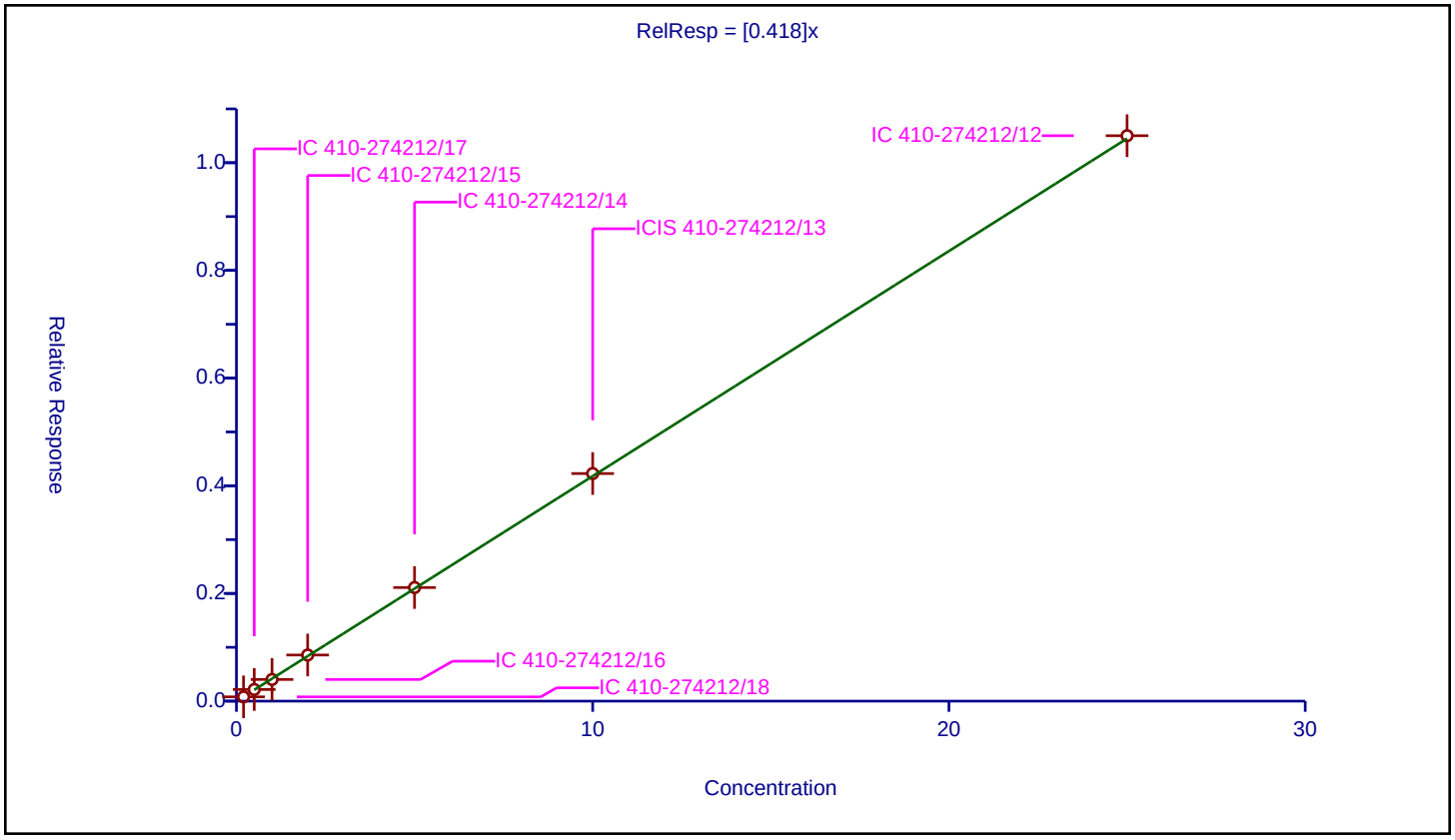
Curve Coefficients

Intercept:	0
Slope:	0.418

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.079567	10.0	2230453.0	0.397834	Y
2	IC 410-274212/17	0.5	0.216383	10.0	2227997.0	0.432765	Y
3	IC 410-274212/16	1.0	0.402257	10.0	2298931.0	0.402257	Y
4	IC 410-274212/15	2.0	0.856395	10.0	2342051.0	0.428197	Y
5	IC 410-274212/14	5.0	2.109944	10.0	2371836.0	0.421989	Y
6	ICIS 410-274212/13	10.0	4.227363	10.0	2357451.0	0.422736	Y
7	IC 410-274212/12	25.0	10.501655	10.0	2340890.0	0.420066	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

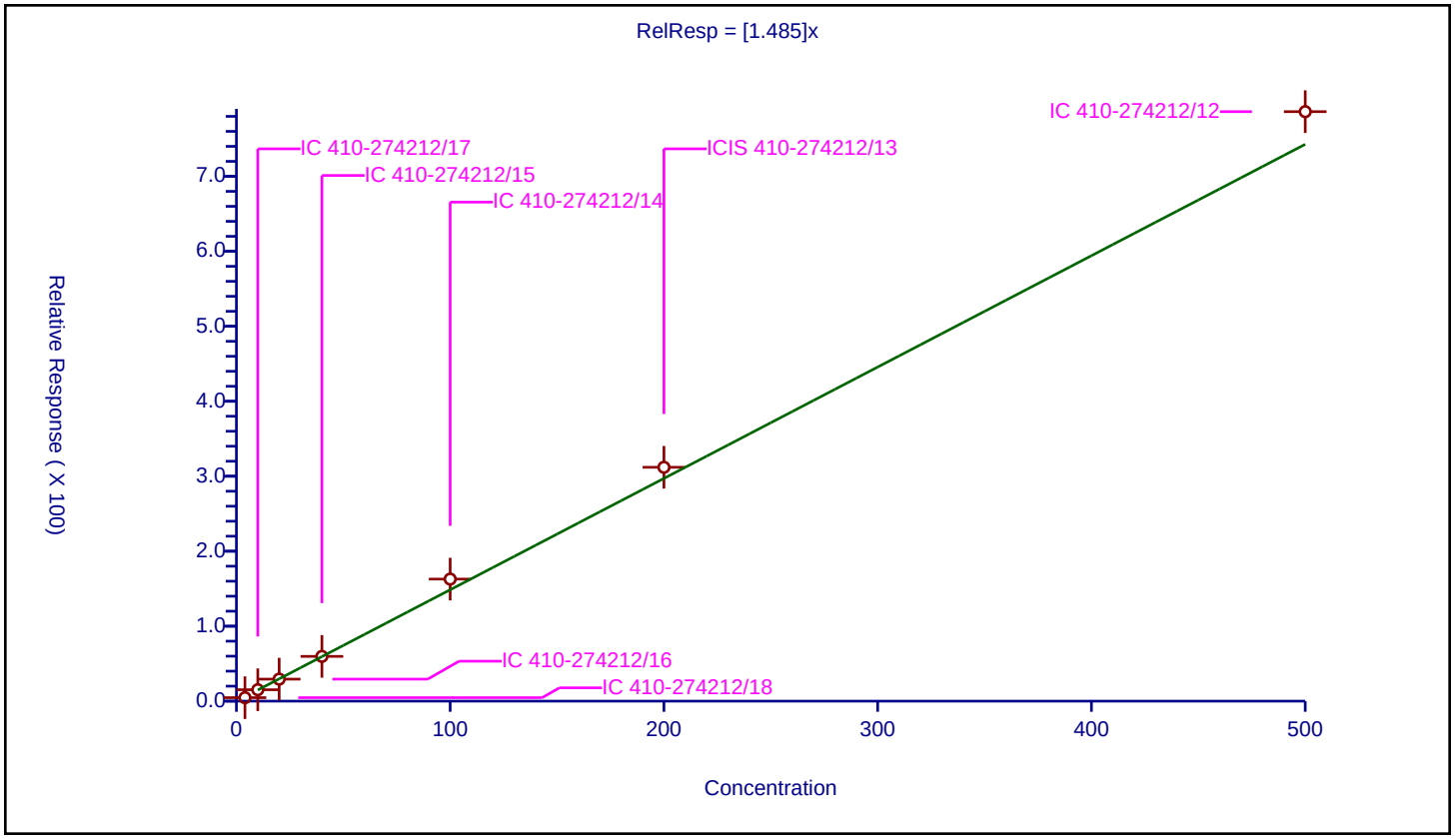
Curve Coefficients

Intercept:	0
Slope:	1.485

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	10.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	4.0	4.619832	50.0	161218.0	1.154958	Y
2	IC 410-274212/17	10.0	15.217571	50.0	156891.0	1.521757	Y
3	IC 410-274212/16	20.0	29.367251	50.0	155670.0	1.468363	Y
4	IC 410-274212/15	40.0	59.712104	50.0	167734.0	1.492803	Y
5	IC 410-274212/14	100.0	162.819207	50.0	157069.0	1.628192	Y
6	ICIS 410-274212/13	200.0	311.938558	50.0	169786.0	1.559693	Y
7	IC 410-274212/12	500.0	786.294566	50.0	159455.0	1.572589	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

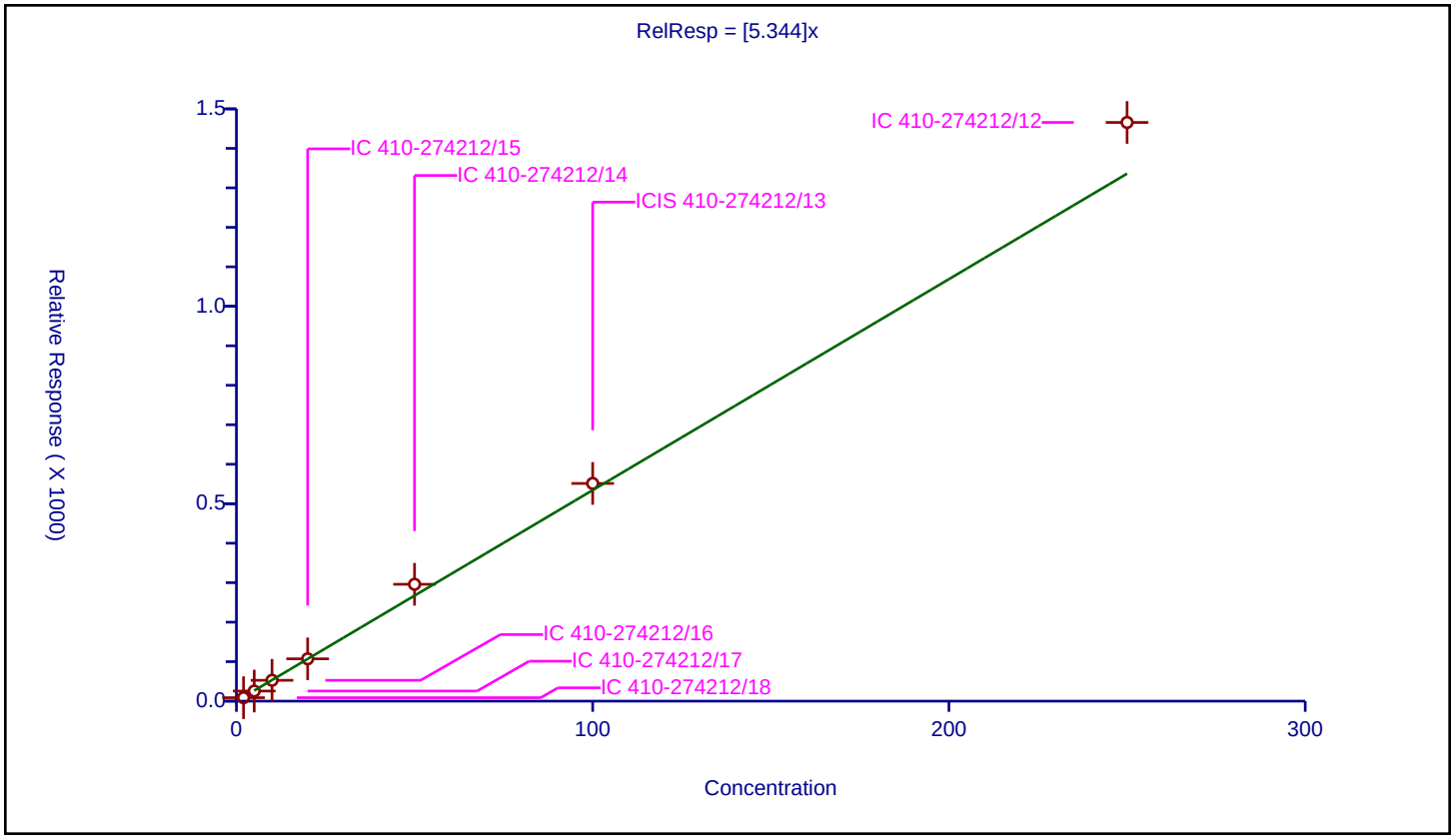
Curve Coefficients

Intercept:	0
Slope:	5.344

Error Coefficients

Standard Error:	2100000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	2.0	8.711186	50.0	161218.0	4.355593	Y
2	IC 410-274212/17	5.0	25.593565	50.0	156891.0	5.118713	Y
3	IC 410-274212/16	10.0	52.788912	50.0	155670.0	5.278891	Y
4	IC 410-274212/15	20.0	107.16581	50.0	167734.0	5.358291	Y
5	IC 410-274212/14	50.0	295.994117	50.0	157069.0	5.919882	Y
6	ICIS 410-274212/13	100.0	551.331676	50.0	169786.0	5.513317	Y
7	IC 410-274212/12	250.0	1465.690947	50.0	159455.0	5.862764	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

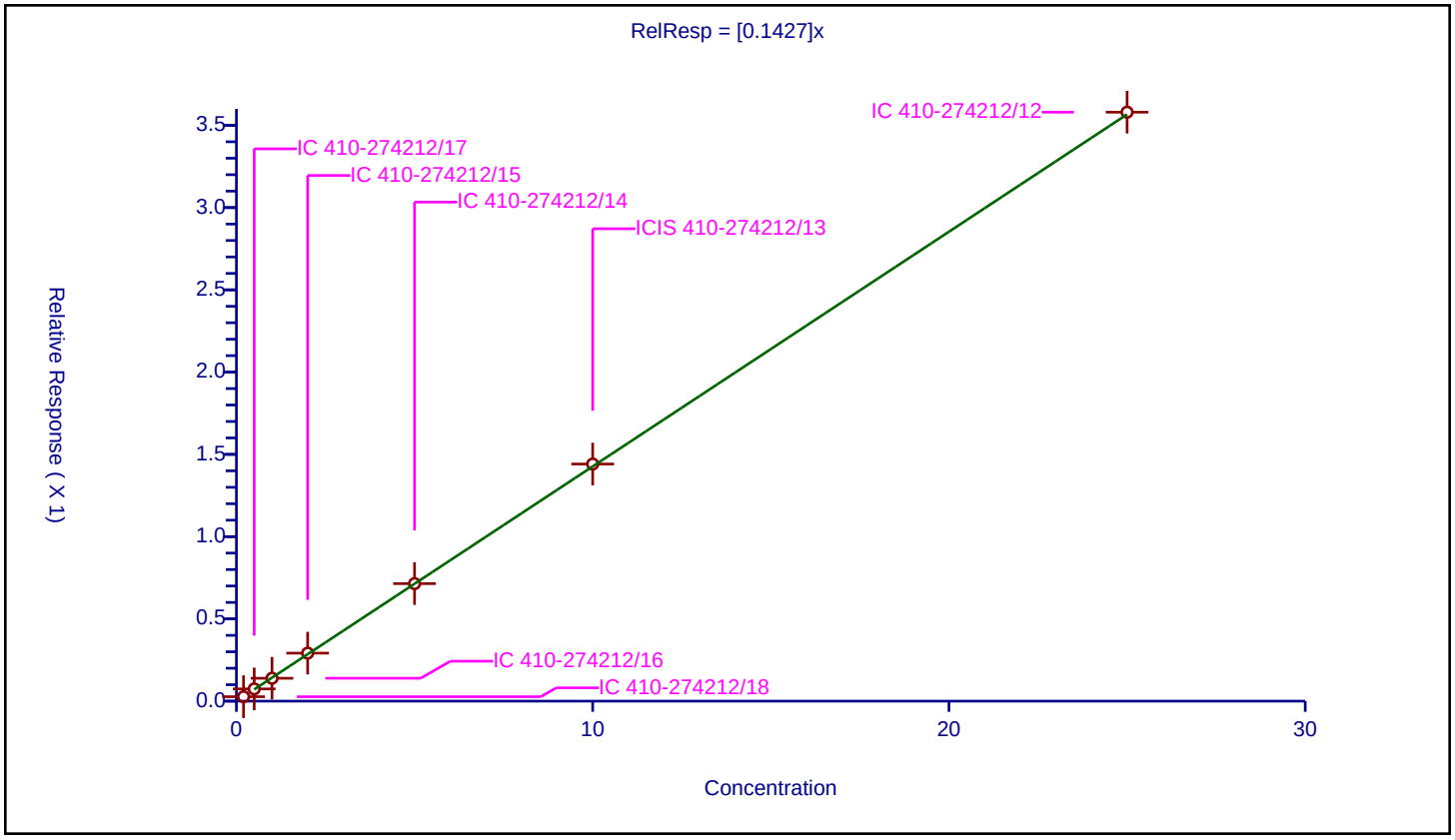
Curve Coefficients

Intercept:	0
Slope:	0.1427

Error Coefficients

Standard Error:	377000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.026941	10.0	2230453.0	0.134704	Y
2	IC 410-274212/17	0.5	0.074385	10.0	2227997.0	0.14877	Y
3	IC 410-274212/16	1.0	0.139073	10.0	2298931.0	0.139073	Y
4	IC 410-274212/15	2.0	0.291872	10.0	2342051.0	0.145936	Y
5	IC 410-274212/14	5.0	0.714303	10.0	2371836.0	0.142861	Y
6	ICIS 410-274212/13	10.0	1.441213	10.0	2357451.0	0.144121	Y
7	IC 410-274212/12	25.0	3.579908	10.0	2340890.0	0.143196	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

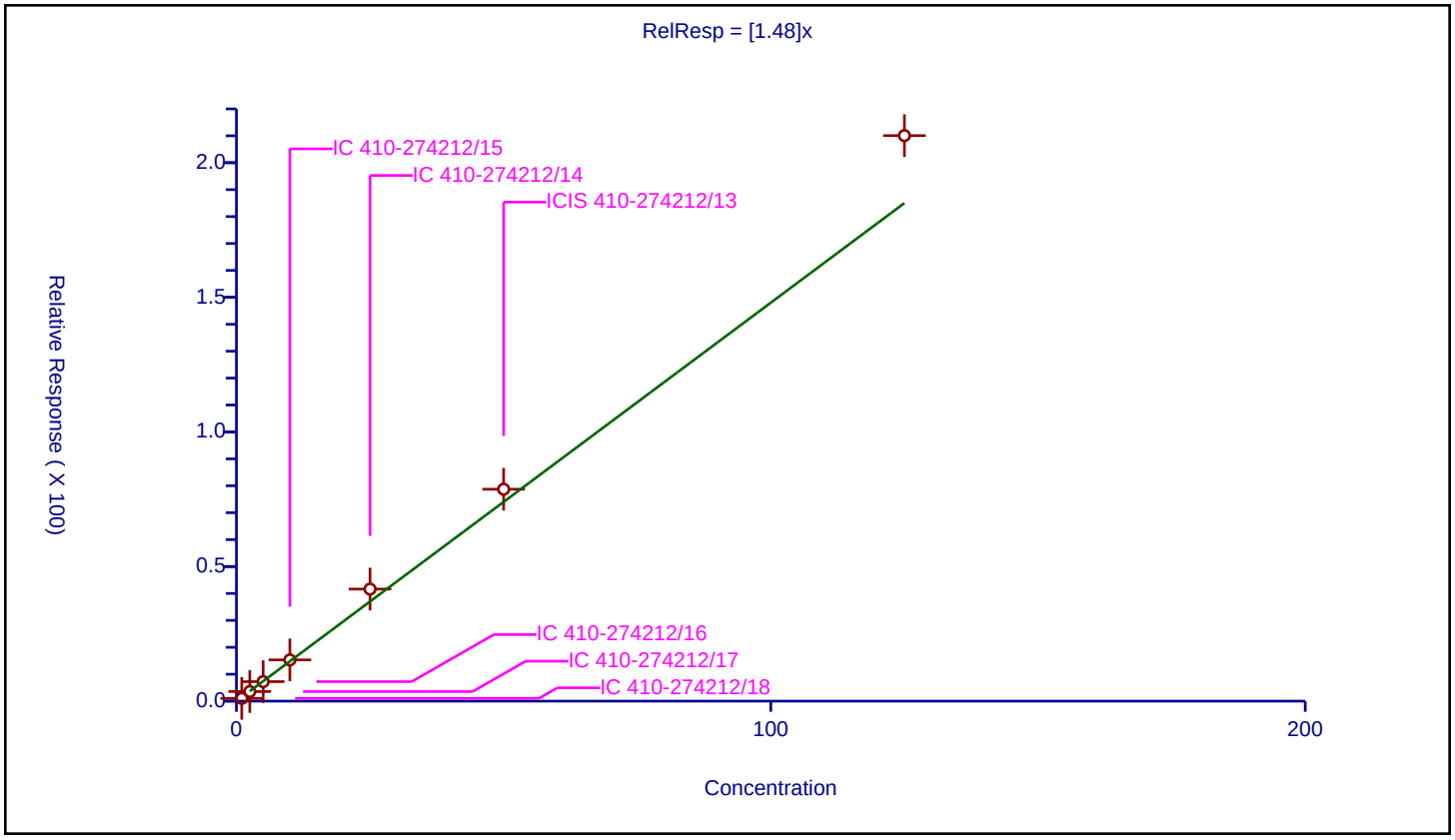
Curve Coefficients

Intercept:	0
Slope:	1.48

Error Coefficients

Standard Error:	300000
Relative Standard Error:	14.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	1.0	1.034934	50.0	161218.0	1.034934	Y
2	IC 410-274212/17	2.5	3.562665	50.0	156891.0	1.425066	Y
3	IC 410-274212/16	5.0	7.243207	50.0	155670.0	1.448641	Y
4	IC 410-274212/15	10.0	15.319196	50.0	167734.0	1.53192	Y
5	IC 410-274212/14	25.0	41.629475	50.0	157069.0	1.665179	Y
6	ICIS 410-274212/13	50.0	78.723216	50.0	169786.0	1.574464	Y
7	IC 410-274212/12	125.0	210.077451	50.0	159455.0	1.68062	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

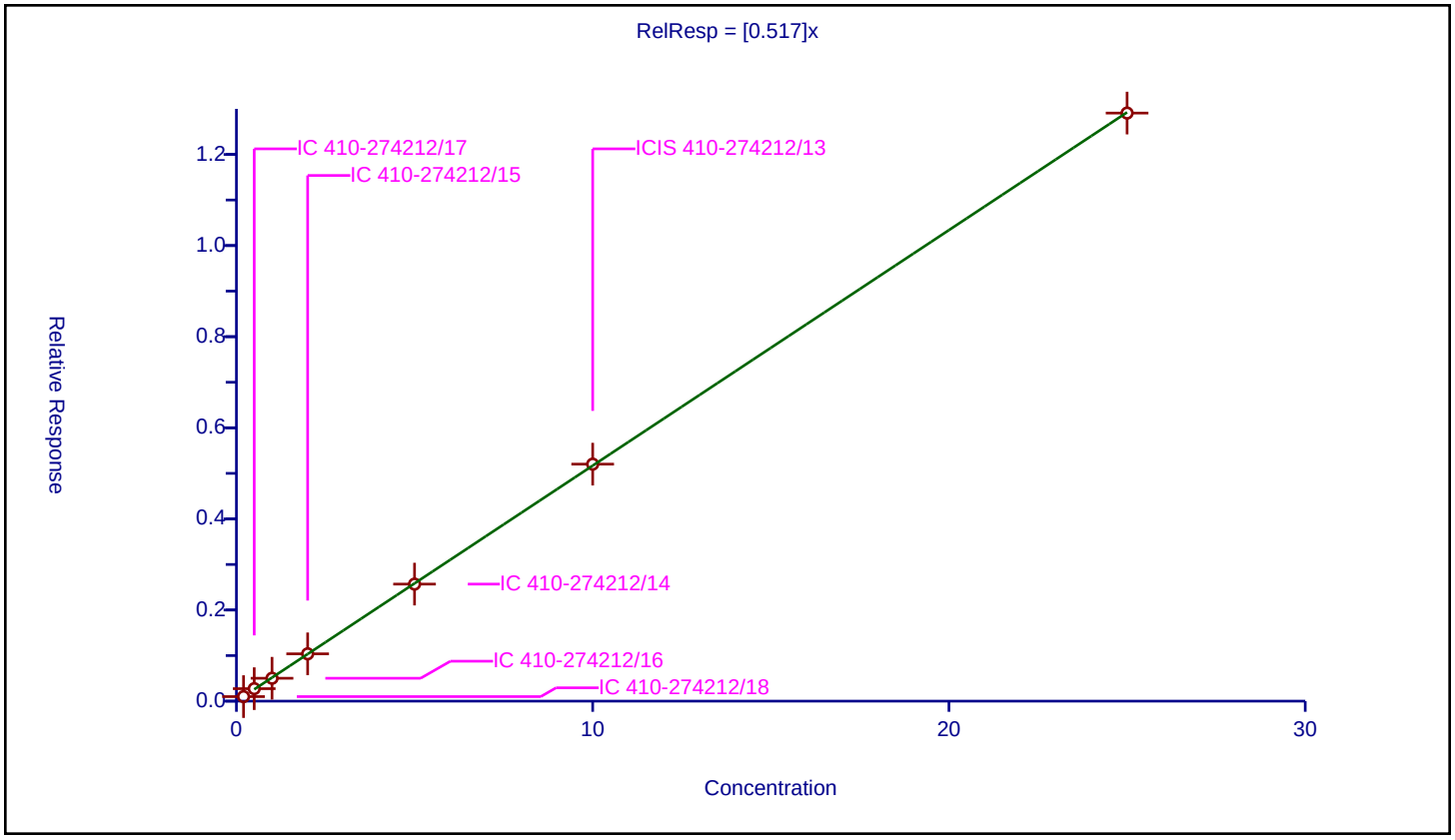
Curve Coefficients

Intercept:	0
Slope:	0.517

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.099827	10.0	2230453.0	0.499136	Y
2	IC 410-274212/17	0.5	0.273811	10.0	2227997.0	0.547622	Y
3	IC 410-274212/16	1.0	0.50226	10.0	2298931.0	0.50226	Y
4	IC 410-274212/15	2.0	1.038709	10.0	2342051.0	0.519355	Y
5	IC 410-274212/14	5.0	2.569398	10.0	2371836.0	0.51388	Y
6	ICIS 410-274212/13	10.0	5.202314	10.0	2357451.0	0.520231	Y
7	IC 410-274212/12	25.0	12.908496	10.0	2340890.0	0.51634	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

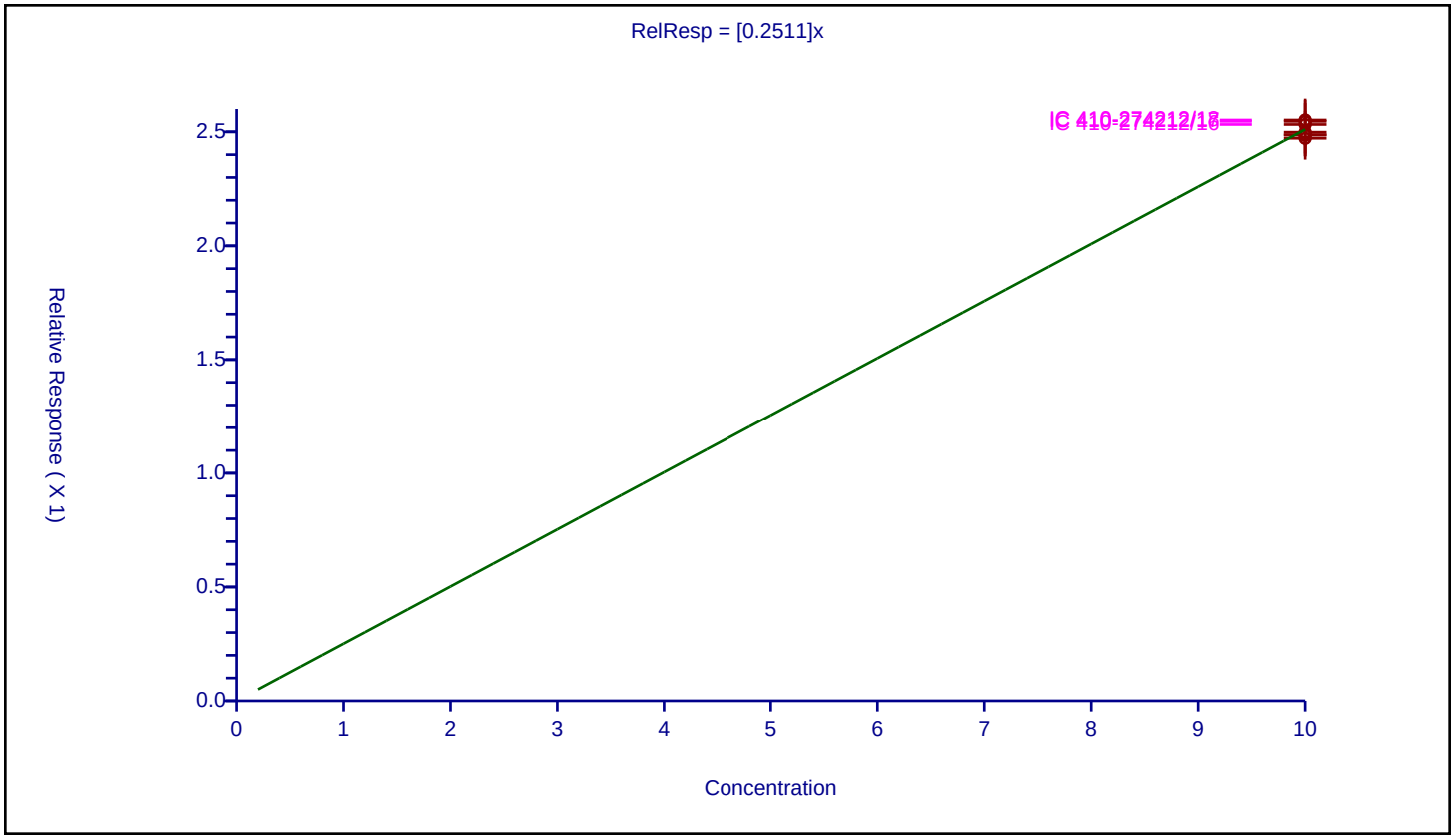
Curve Coefficients

Intercept:	0
Slope:	0.2511

Error Coefficients

Standard Error:	626000
Relative Standard Error:	1.3
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/12	10.0	2.488079	10.0	2340890.0	0.248808	Y
2	ICIS 410-274212/13	10.0	2.485413	10.0	2357451.0	0.248541	Y
3	IC 410-274212/14	10.0	2.471904	10.0	2371836.0	0.24719	Y
4	IC 410-274212/15	10.0	2.49863	10.0	2342051.0	0.249863	Y
5	IC 410-274212/16	10.0	2.532255	10.0	2298931.0	0.253226	Y
6	IC 410-274212/17	10.0	2.54587	10.0	2227997.0	0.254587	Y
7	IC 410-274212/18	10.0	2.551804	10.0	2230453.0	0.25518	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

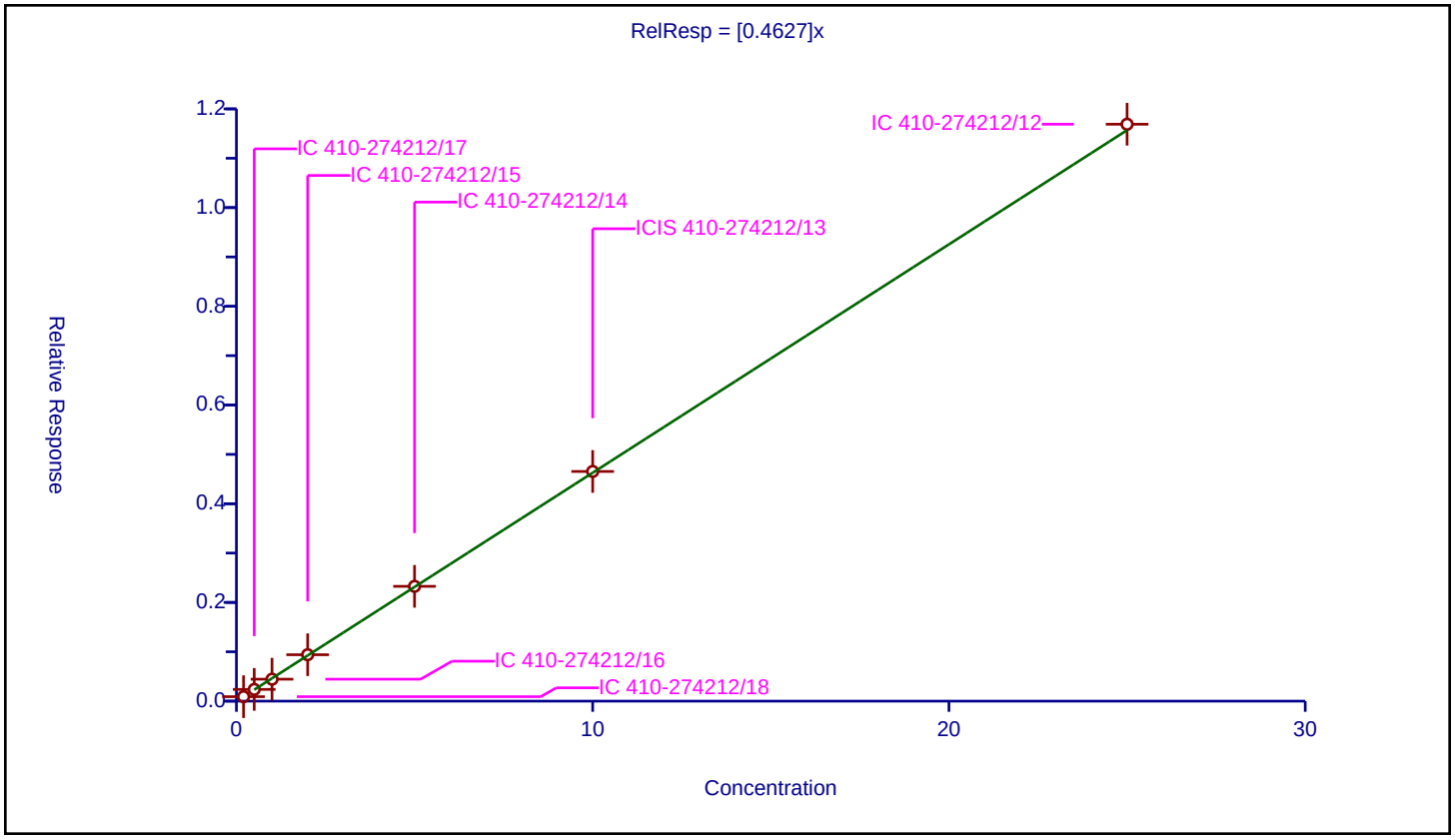
Curve Coefficients

Intercept:	0
Slope:	0.4627

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.090166	10.0	2230453.0	0.450828	Y
2	IC 410-274212/17	0.5	0.237536	10.0	2227997.0	0.475072	Y
3	IC 410-274212/16	1.0	0.445033	10.0	2298931.0	0.445033	Y
4	IC 410-274212/15	2.0	0.940219	10.0	2342051.0	0.470109	Y
5	IC 410-274212/14	5.0	2.326308	10.0	2371836.0	0.465262	Y
6	ICIS 410-274212/13	10.0	4.653497	10.0	2357451.0	0.46535	Y
7	IC 410-274212/12	25.0	11.689289	10.0	2340890.0	0.467572	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

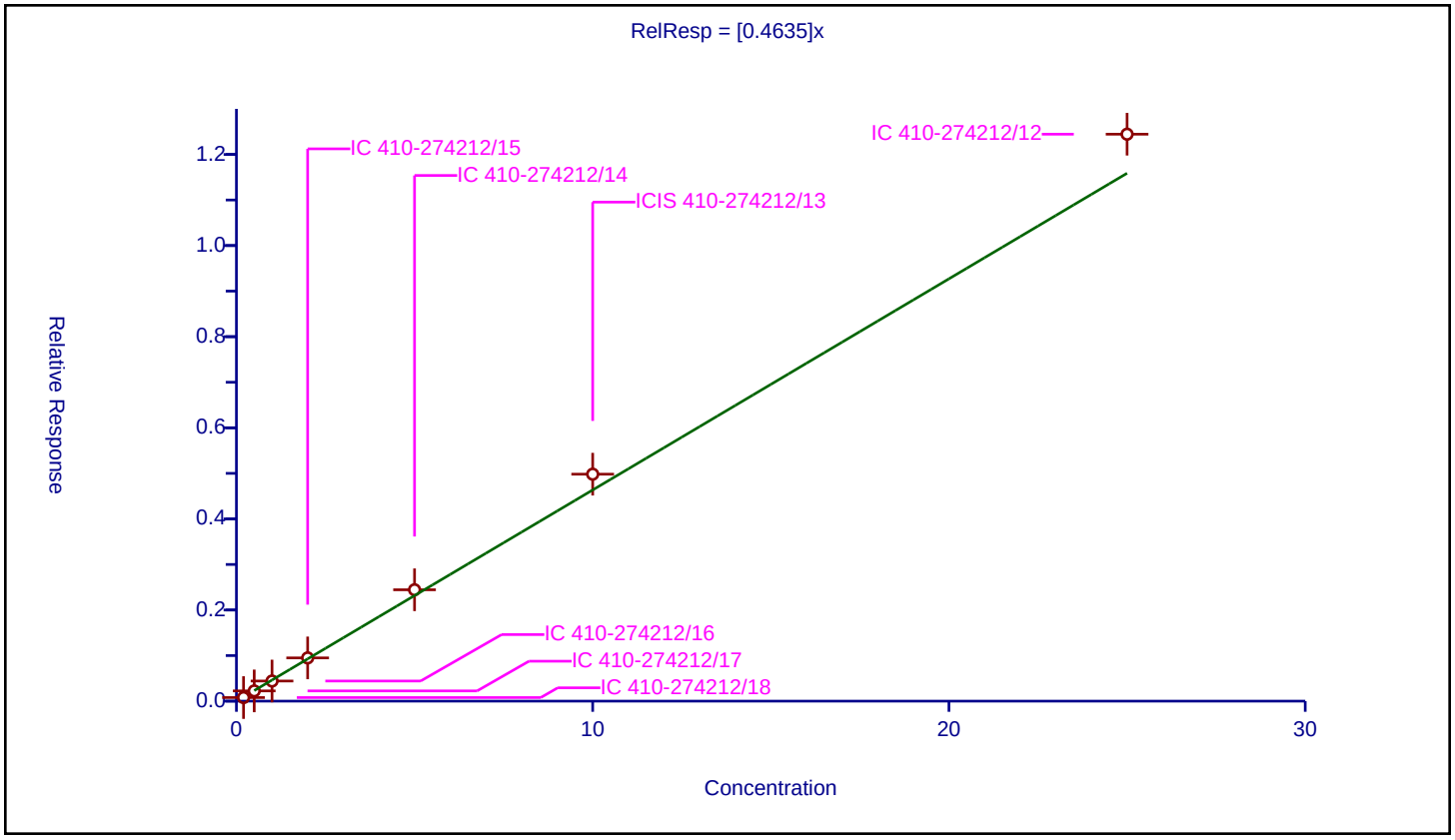
Curve Coefficients

Intercept:	0
Slope:	0.4635

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.078858	10.0	2230453.0	0.394292	Y
2	IC 410-274212/17	0.5	0.224511	10.0	2227997.0	0.449022	Y
3	IC 410-274212/16	1.0	0.441831	10.0	2298931.0	0.441831	Y
4	IC 410-274212/15	2.0	0.948861	10.0	2342051.0	0.47443	Y
5	IC 410-274212/14	5.0	2.444849	10.0	2371836.0	0.48897	Y
6	ICIS 410-274212/13	10.0	4.981656	10.0	2357451.0	0.498166	Y
7	IC 410-274212/12	25.0	12.444771	10.0	2340890.0	0.497791	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

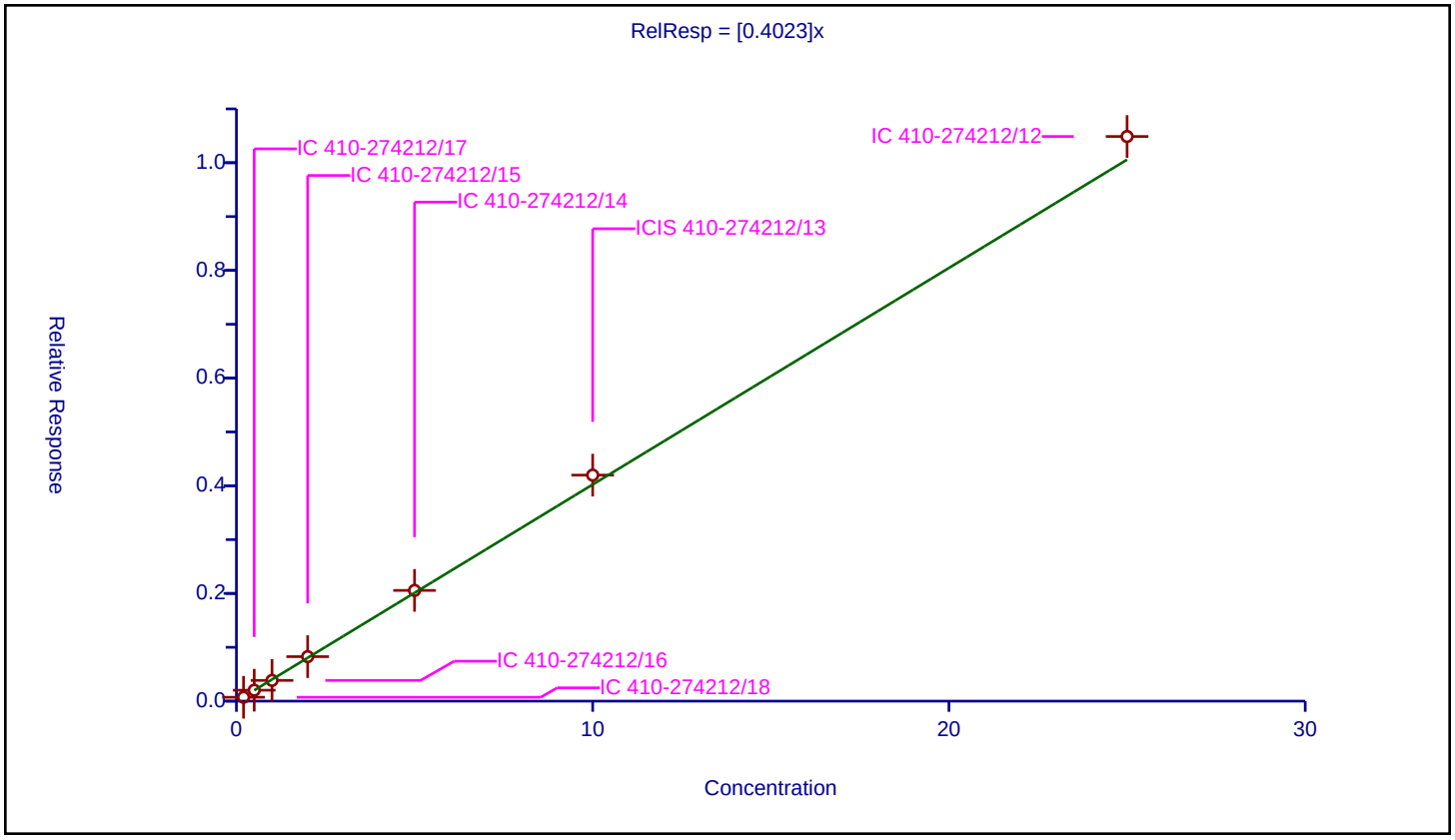
Curve Coefficients

Intercept:	0
Slope:	0.4023

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.072219	10.0	2230453.0	0.361093	Y
2	IC 410-274212/17	0.5	0.202913	10.0	2227997.0	0.405826	Y
3	IC 410-274212/16	1.0	0.385249	10.0	2298931.0	0.385249	Y
4	IC 410-274212/15	2.0	0.826481	10.0	2342051.0	0.41324	Y
5	IC 410-274212/14	5.0	2.056403	10.0	2371836.0	0.411281	Y
6	ICIS 410-274212/13	10.0	4.19806	10.0	2357451.0	0.419806	Y
7	IC 410-274212/12	25.0	10.487387	10.0	2340890.0	0.419495	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

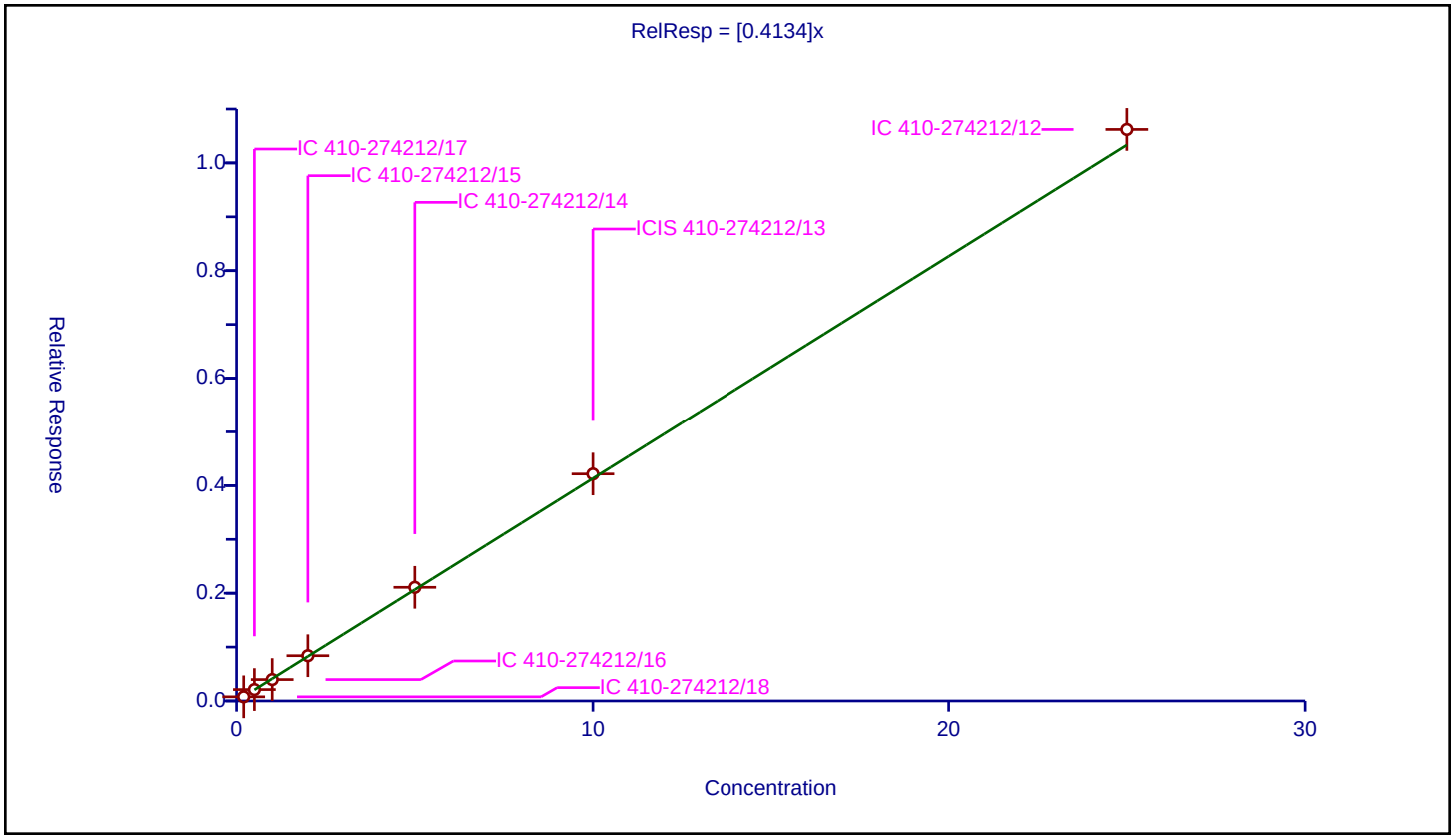
Curve Coefficients

Intercept:	0
Slope:	0.4134

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.077043	10.0	2230453.0	0.385213	Y
2	IC 410-274212/17	0.5	0.211585	10.0	2227997.0	0.423169	Y
3	IC 410-274212/16	1.0	0.396871	10.0	2298931.0	0.396871	Y
4	IC 410-274212/15	2.0	0.839802	10.0	2342051.0	0.419901	Y
5	IC 410-274212/14	5.0	2.109395	10.0	2371836.0	0.421879	Y
6	ICIS 410-274212/13	10.0	4.216465	10.0	2357451.0	0.421647	Y
7	IC 410-274212/12	25.0	10.621712	10.0	2340890.0	0.424868	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

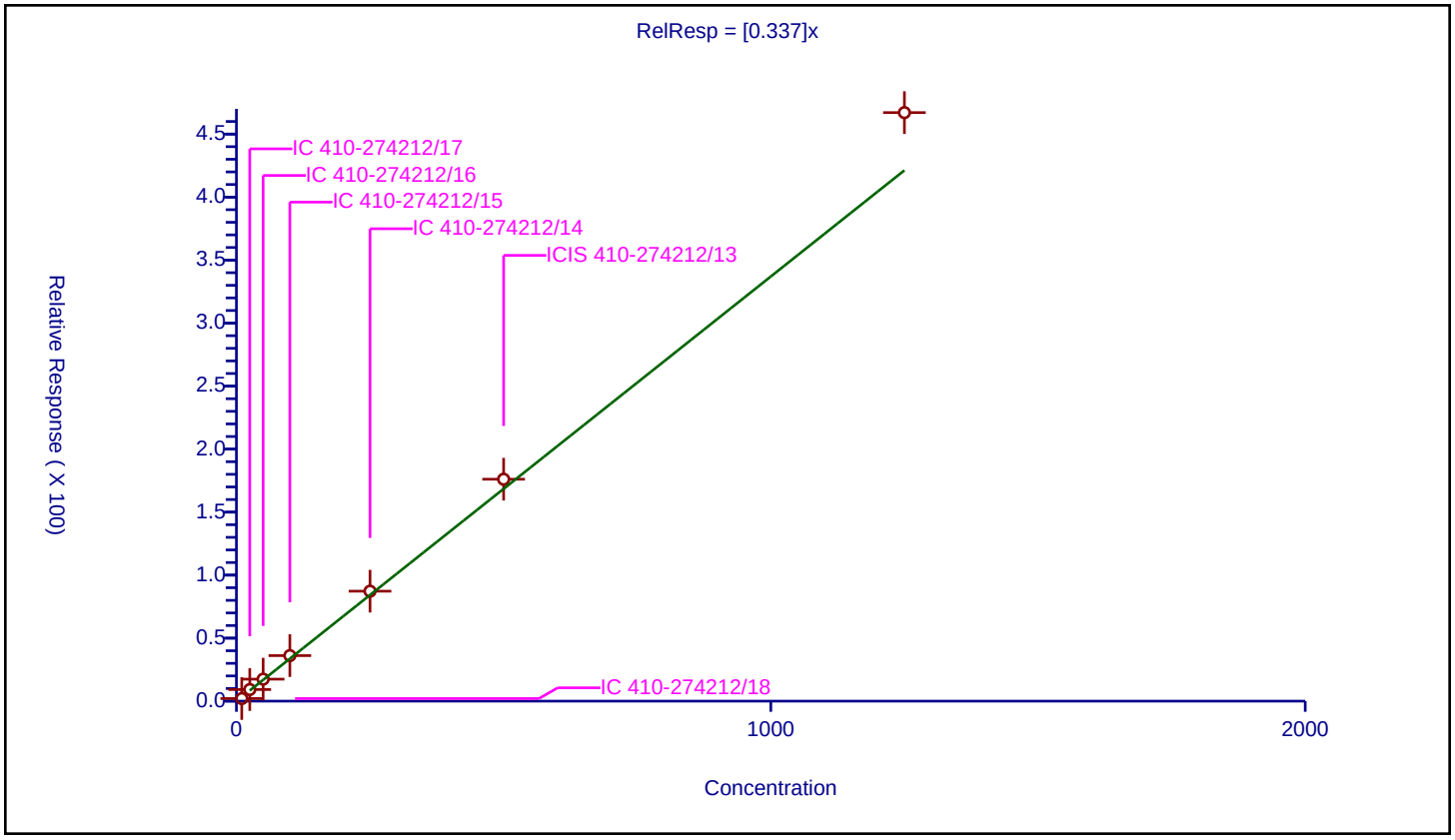
Curve Coefficients

Intercept:	0
Slope:	0.337

Error Coefficients

Standard Error:	667000
Relative Standard Error:	17.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	10.0	2.056222	50.0	161218.0	0.205622	Y
2	IC 410-274212/17	25.0	9.207985	50.0	156891.0	0.368319	Y
3	IC 410-274212/16	50.0	17.442346	50.0	155670.0	0.348847	Y
4	IC 410-274212/15	100.0	36.124757	50.0	167734.0	0.361248	Y
5	IC 410-274212/14	250.0	87.260376	50.0	157069.0	0.349042	Y
6	ICIS 410-274212/13	500.0	176.110516	50.0	169786.0	0.352221	Y
7	IC 410-274212/12	1250.0	467.033646	50.0	159455.0	0.373627	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

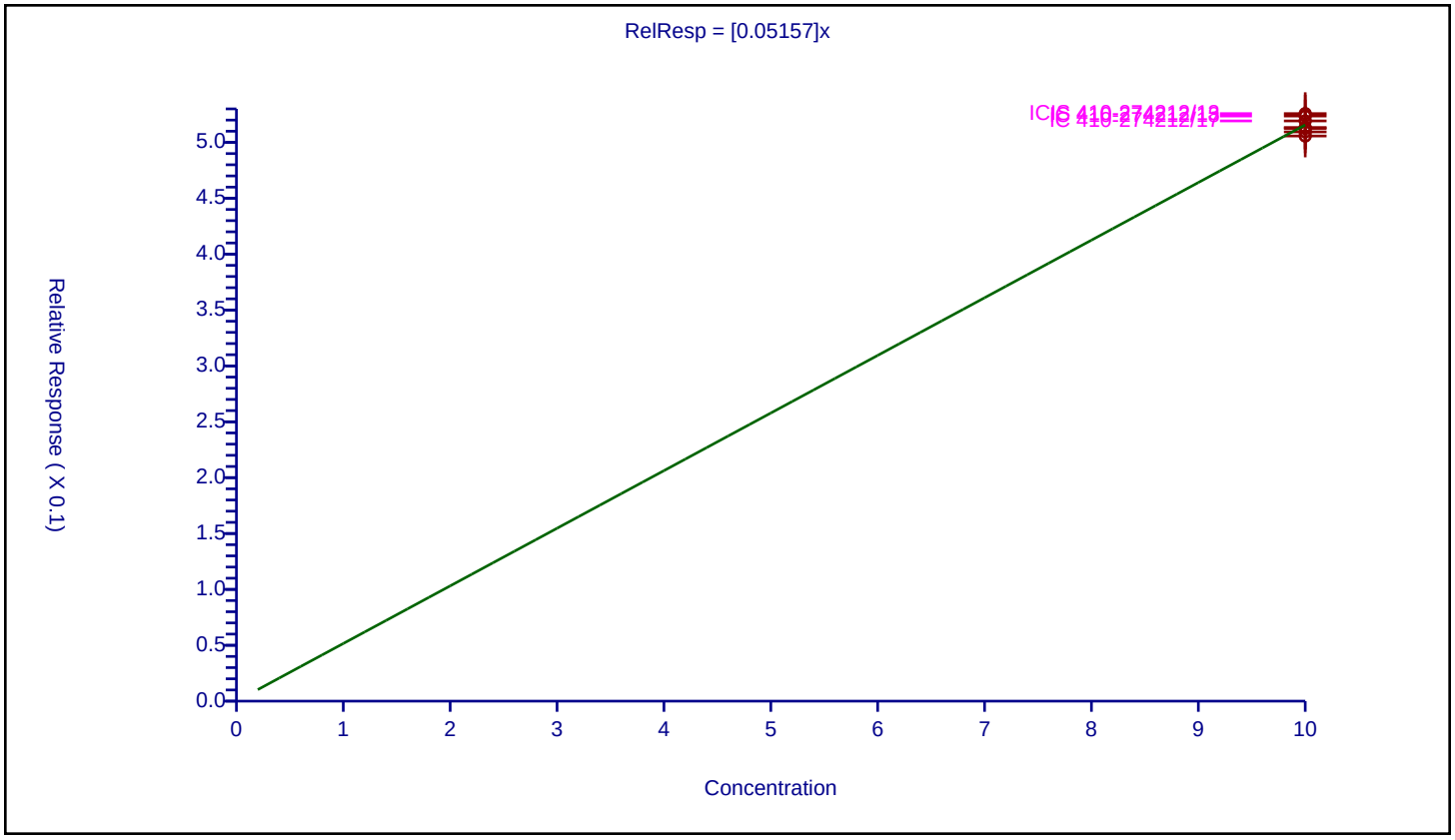
Curve Coefficients

Intercept:	0
Slope:	0.05157

Error Coefficients

Standard Error:	129000
Relative Standard Error:	1.4
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/12	10.0	0.513343	10.0	2340890.0	0.051334	Y
2	ICIS 410-274212/13	10.0	0.525771	10.0	2357451.0	0.052577	Y
3	IC 410-274212/14	10.0	0.505726	10.0	2371836.0	0.050573	Y
4	IC 410-274212/15	10.0	0.512495	10.0	2342051.0	0.05125	Y
5	IC 410-274212/16	10.0	0.509437	10.0	2298931.0	0.050944	Y
6	IC 410-274212/17	10.0	0.519233	10.0	2227997.0	0.051923	Y
7	IC 410-274212/18	10.0	0.523611	10.0	2230453.0	0.052361	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

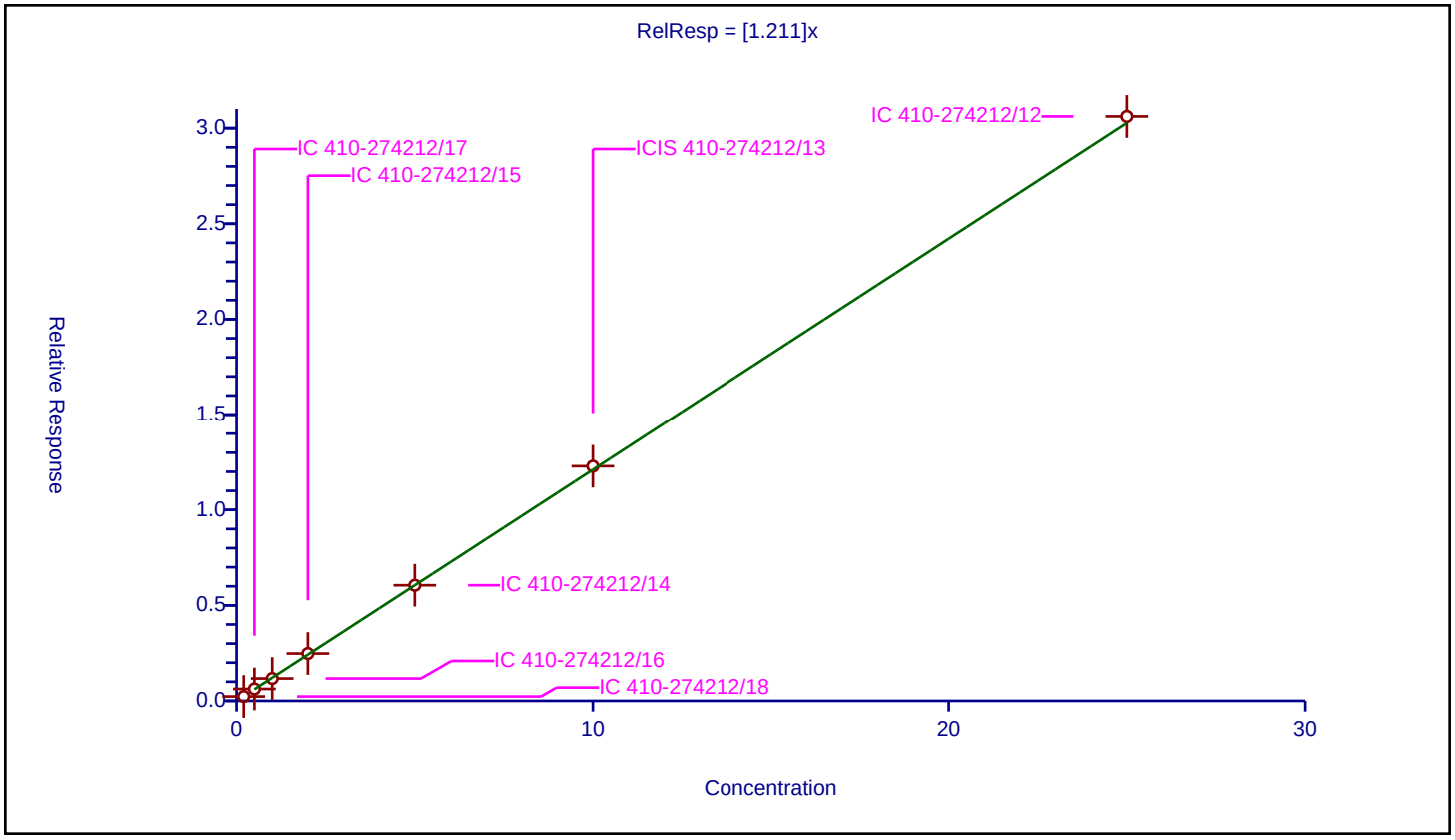
Curve Coefficients

Intercept:	0
Slope:	1.211

Error Coefficients

Standard Error:	3220000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.229949	10.0	2230453.0	1.149744	Y
2	IC 410-274212/17	0.5	0.625382	10.0	2227997.0	1.250765	Y
3	IC 410-274212/16	1.0	1.172084	10.0	2298931.0	1.172084	Y
4	IC 410-274212/15	2.0	2.479241	10.0	2342051.0	1.239621	Y
5	IC 410-274212/14	5.0	6.05369	10.0	2371836.0	1.210738	Y
6	ICIS 410-274212/13	10.0	12.291	10.0	2357451.0	1.2291	Y
7	IC 410-274212/12	25.0	30.612716	10.0	2340890.0	1.224509	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

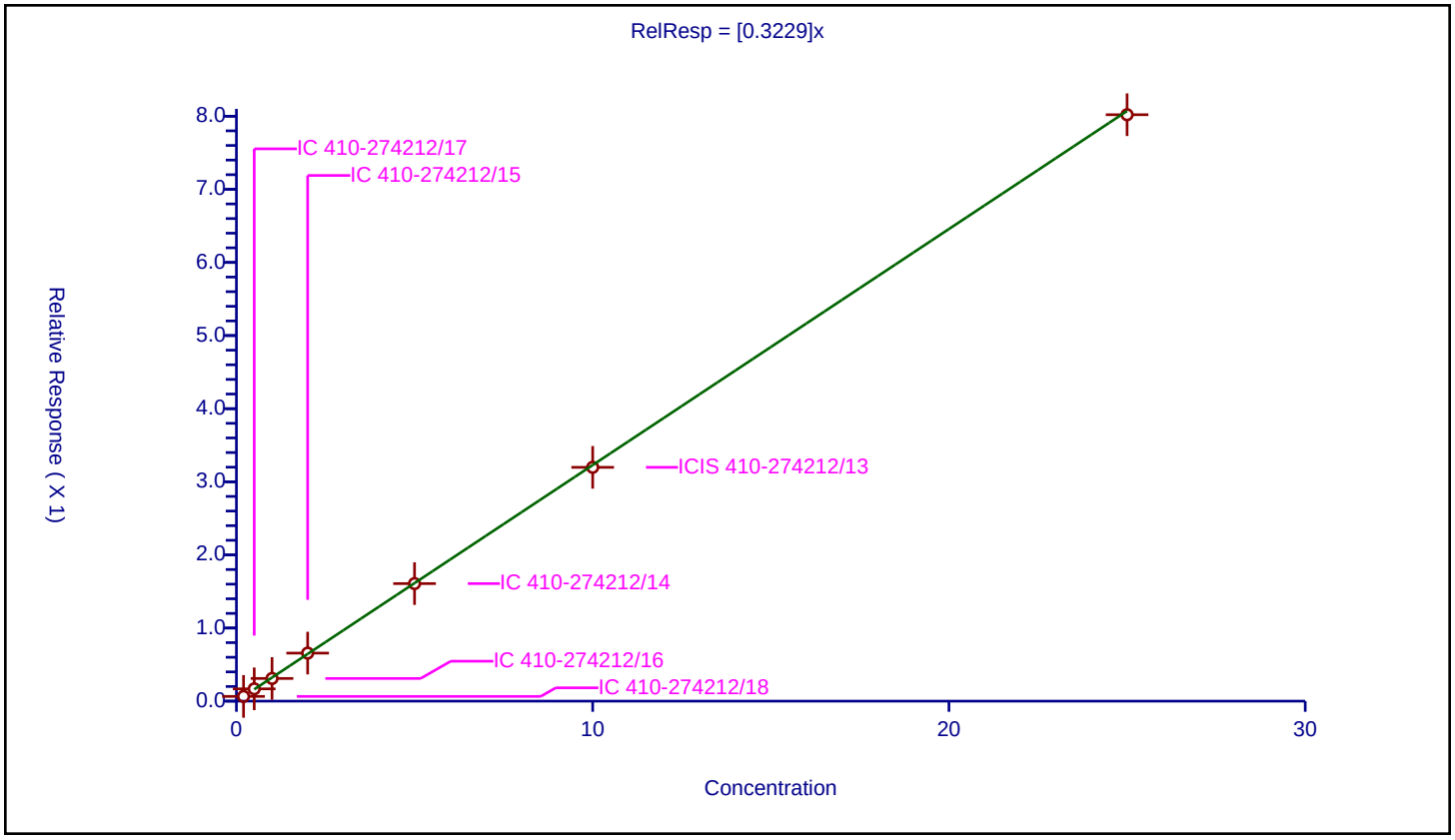
Curve Coefficients

Intercept:	0
Slope:	0.3229

Error Coefficients

Standard Error:	843000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.064516	10.0	2230453.0	0.32258	Y
2	IC 410-274212/17	0.5	0.168236	10.0	2227997.0	0.336473	Y
3	IC 410-274212/16	1.0	0.310322	10.0	2298931.0	0.310322	Y
4	IC 410-274212/15	2.0	0.656971	10.0	2342051.0	0.328486	Y
5	IC 410-274212/14	5.0	1.607653	10.0	2371836.0	0.321531	Y
6	ICIS 410-274212/13	10.0	3.197683	10.0	2357451.0	0.319768	Y
7	IC 410-274212/12	25.0	8.020142	10.0	2340890.0	0.320806	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

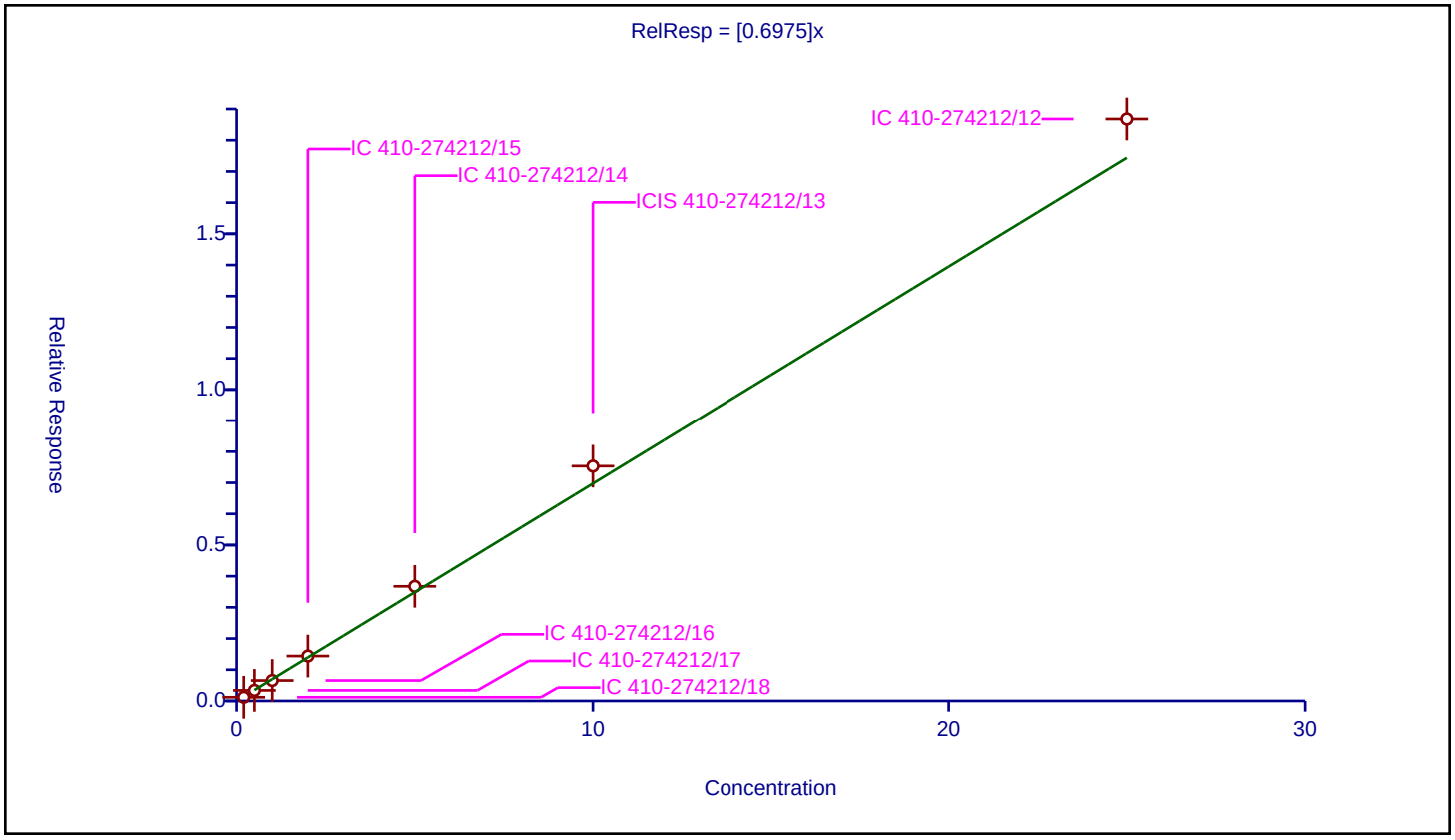
Curve Coefficients

Intercept:	0
Slope:	0.6975

Error Coefficients

Standard Error:	1970000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.118734	10.0	2230453.0	0.593669	Y
2	IC 410-274212/17	0.5	0.339067	10.0	2227997.0	0.678134	Y
3	IC 410-274212/16	1.0	0.655187	10.0	2298931.0	0.655187	Y
4	IC 410-274212/15	2.0	1.43935	10.0	2342051.0	0.719675	Y
5	IC 410-274212/14	5.0	3.675043	10.0	2371836.0	0.735009	Y
6	ICIS 410-274212/13	10.0	7.535342	10.0	2357451.0	0.753534	Y
7	IC 410-274212/12	25.0	18.68051	10.0	2340890.0	0.74722	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

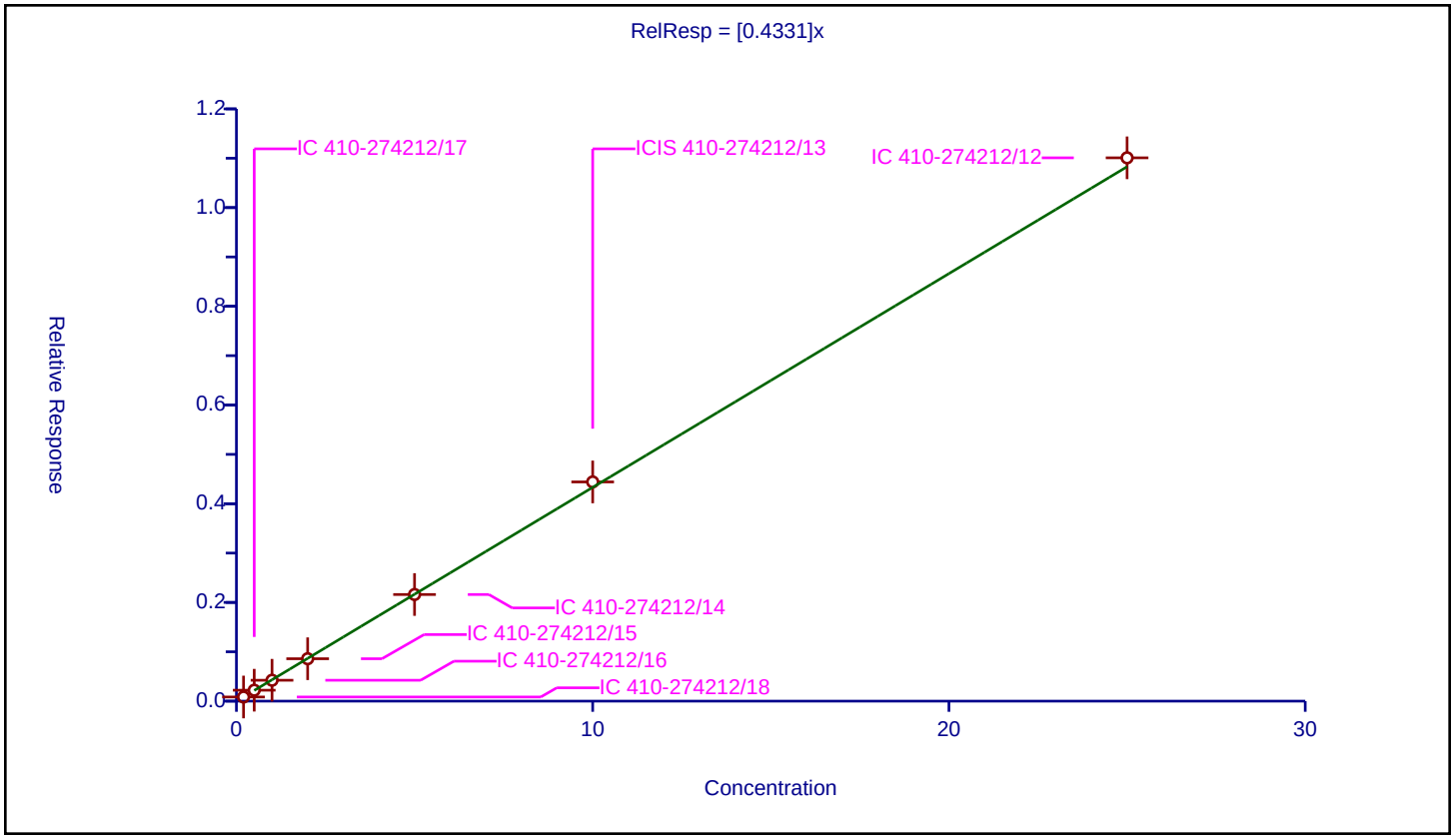
Curve Coefficients

Intercept:	0
Slope:	0.4331

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.083929	10.0	2230453.0	0.419646	Y
2	IC 410-274212/17	0.5	0.221369	10.0	2227997.0	0.442738	Y
3	IC 410-274212/16	1.0	0.423188	10.0	2298931.0	0.423188	Y
4	IC 410-274212/15	2.0	0.859563	10.0	2342051.0	0.429781	Y
5	IC 410-274212/14	5.0	2.160339	10.0	2371836.0	0.432068	Y
6	ICIS 410-274212/13	10.0	4.441412	10.0	2357451.0	0.444141	Y
7	IC 410-274212/12	25.0	11.00842	10.0	2340890.0	0.440337	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

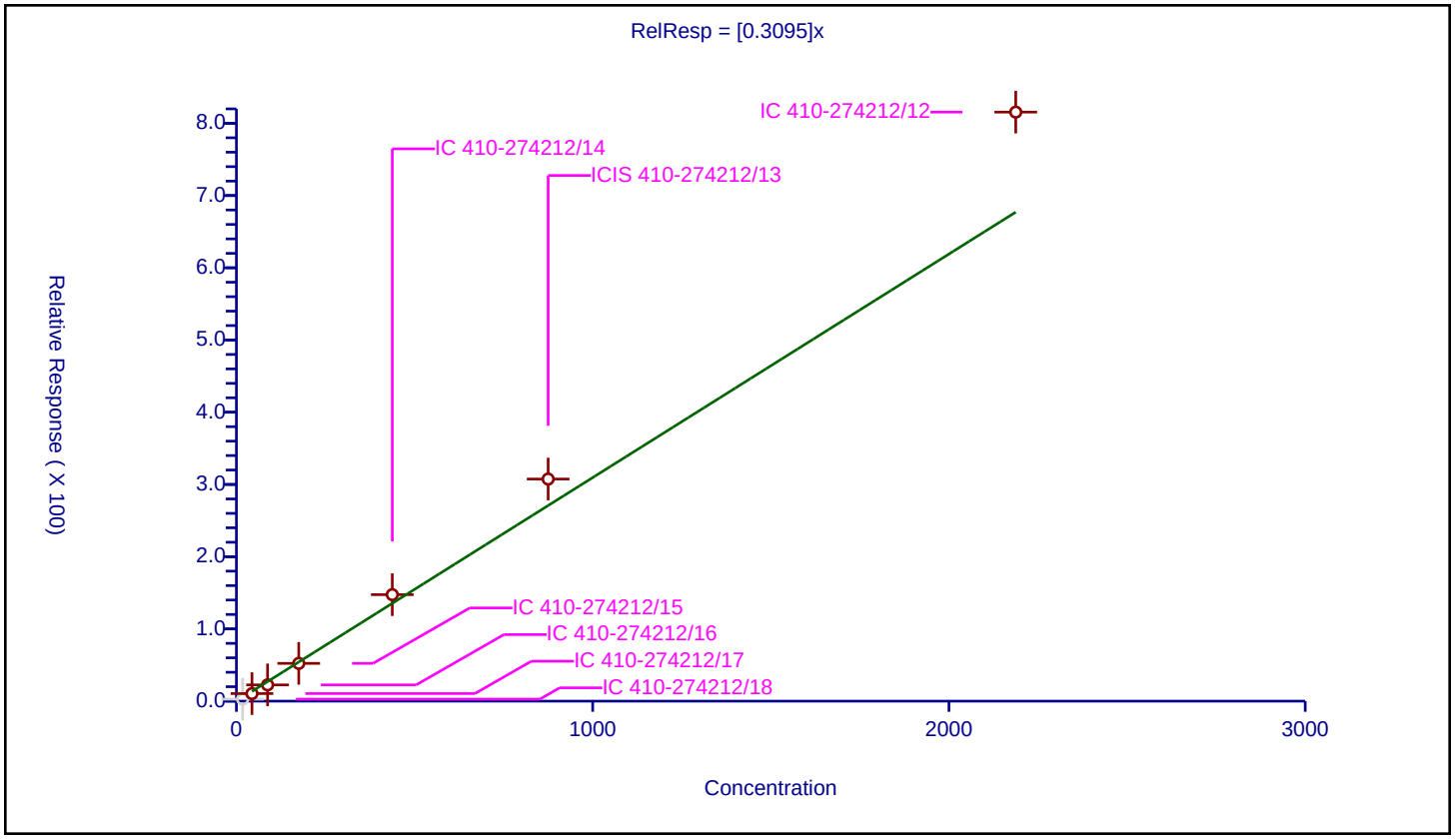
Curve Coefficients

Intercept:	0
Slope:	0.3095

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	17.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	17.5	2.738838	50.0	161218.0	0.156505	N
2	IC 410-274212/17	43.75	10.500921	50.0	156891.0	0.240021	Y
3	IC 410-274212/16	87.5	22.500161	50.0	155670.0	0.257145	Y
4	IC 410-274212/15	175.0	52.269665	50.0	167734.0	0.298684	Y
5	IC 410-274212/14	437.5	147.452712	50.0	157069.0	0.337035	Y
6	ICIS 410-274212/13	875.0	307.488544	50.0	169786.0	0.351415	Y
7	IC 410-274212/12	2187.5	815.52946	50.0	159455.0	0.372813	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

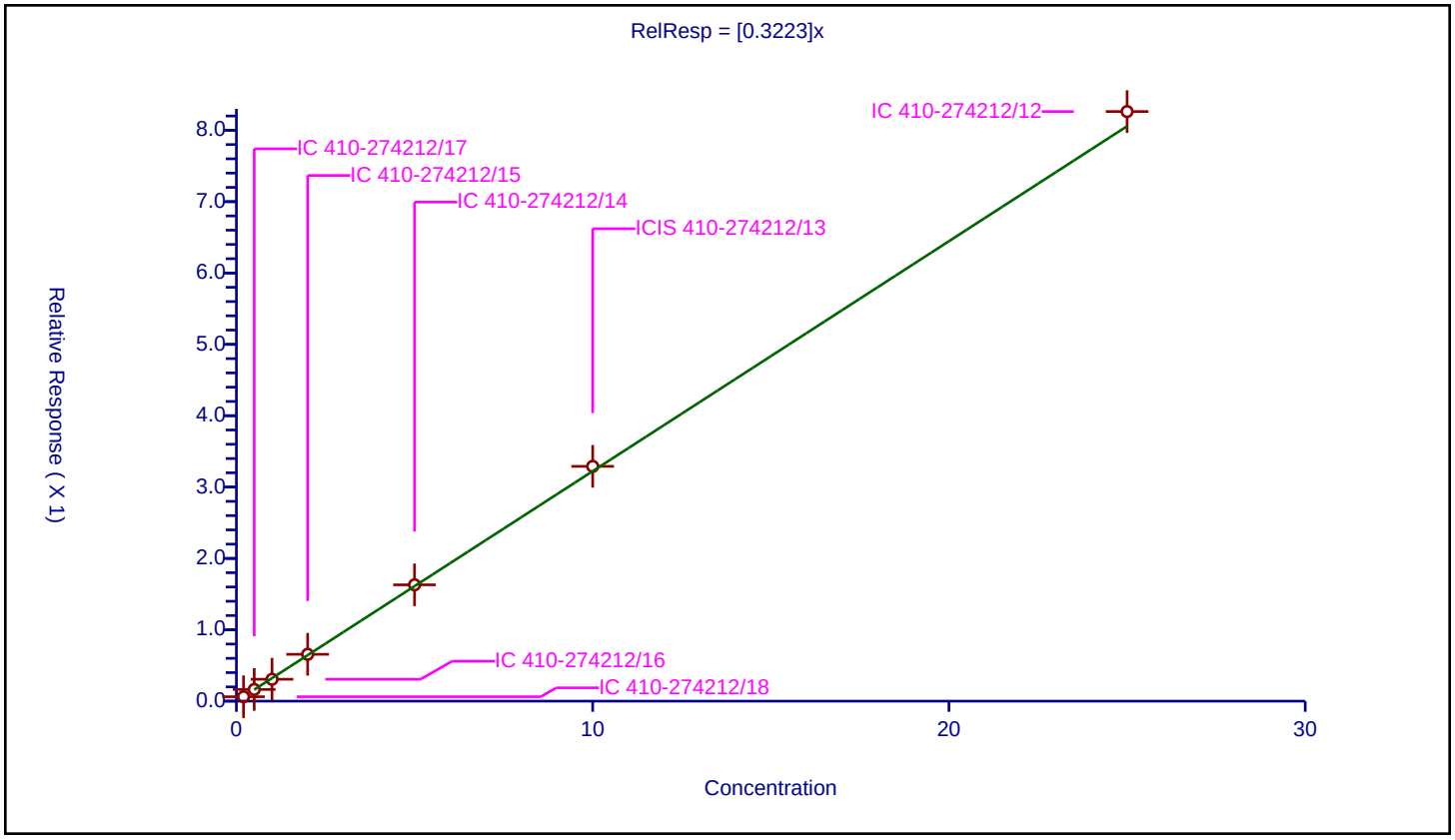
Curve Coefficients

Intercept:	0
Slope:	0.3223

Error Coefficients

Standard Error:	868000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.061678	10.0	2230453.0	0.30839	Y
2	IC 410-274212/17	0.5	0.163546	10.0	2227997.0	0.327092	Y
3	IC 410-274212/16	1.0	0.306625	10.0	2298931.0	0.306625	Y
4	IC 410-274212/15	2.0	0.656502	10.0	2342051.0	0.328251	Y
5	IC 410-274212/14	5.0	1.630336	10.0	2371836.0	0.326067	Y
6	ICIS 410-274212/13	10.0	3.290613	10.0	2357451.0	0.329061	Y
7	IC 410-274212/12	25.0	8.262614	10.0	2340890.0	0.330505	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

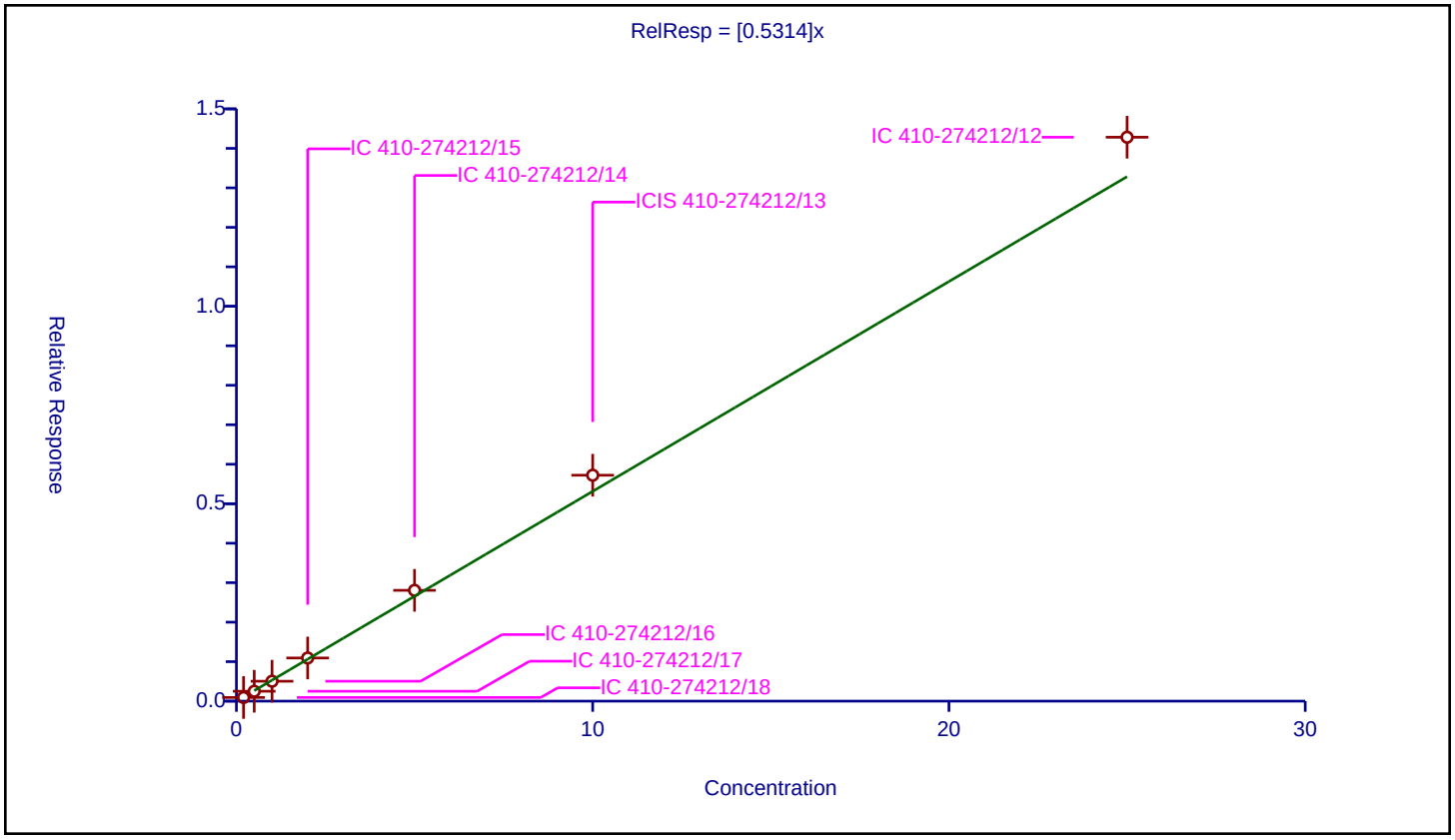
Curve Coefficients

Intercept:	0
Slope:	0.5314

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.092569	10.0	2230453.0	0.462843	Y
2	IC 410-274212/17	0.5	0.250431	10.0	2227997.0	0.500862	Y
3	IC 410-274212/16	1.0	0.504561	10.0	2298931.0	0.504561	Y
4	IC 410-274212/15	2.0	1.093396	10.0	2342051.0	0.546698	Y
5	IC 410-274212/14	5.0	2.806358	10.0	2371836.0	0.561272	Y
6	ICIS 410-274212/13	10.0	5.722155	10.0	2357451.0	0.572215	Y
7	IC 410-274212/12	25.0	14.282149	10.0	2340890.0	0.571286	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

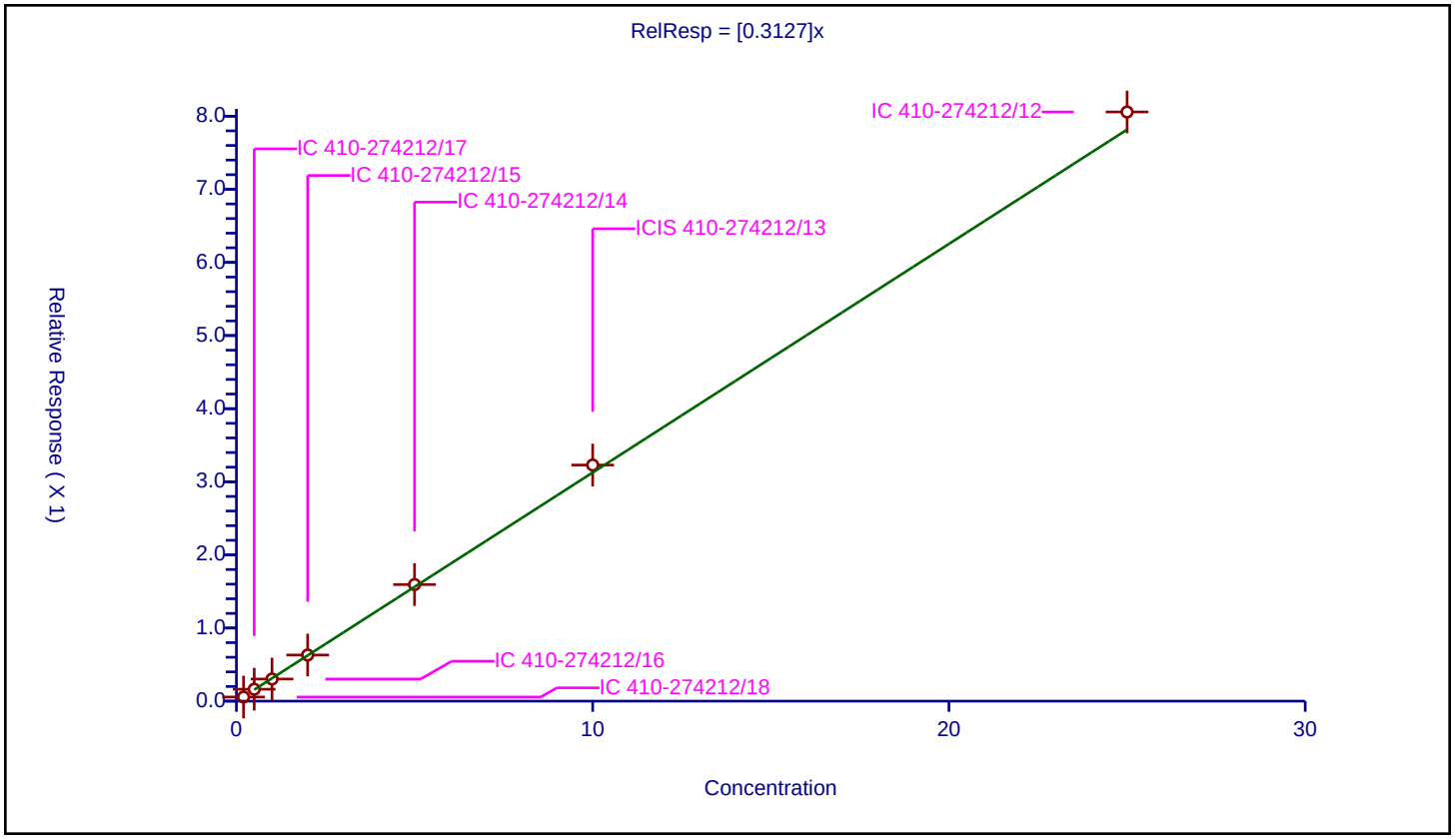
Curve Coefficients

Intercept:	0
Slope:	0.3127

Error Coefficients

Standard Error:	847000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.056181	10.0	2230453.0	0.280907	Y
2	IC 410-274212/17	0.5	0.162945	10.0	2227997.0	0.325889	Y
3	IC 410-274212/16	1.0	0.302436	10.0	2298931.0	0.302436	Y
4	IC 410-274212/15	2.0	0.630558	10.0	2342051.0	0.315279	Y
5	IC 410-274212/14	5.0	1.594663	10.0	2371836.0	0.318933	Y
6	ICIS 410-274212/13	10.0	3.229119	10.0	2357451.0	0.322912	Y
7	IC 410-274212/12	25.0	8.057683	10.0	2340890.0	0.322307	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

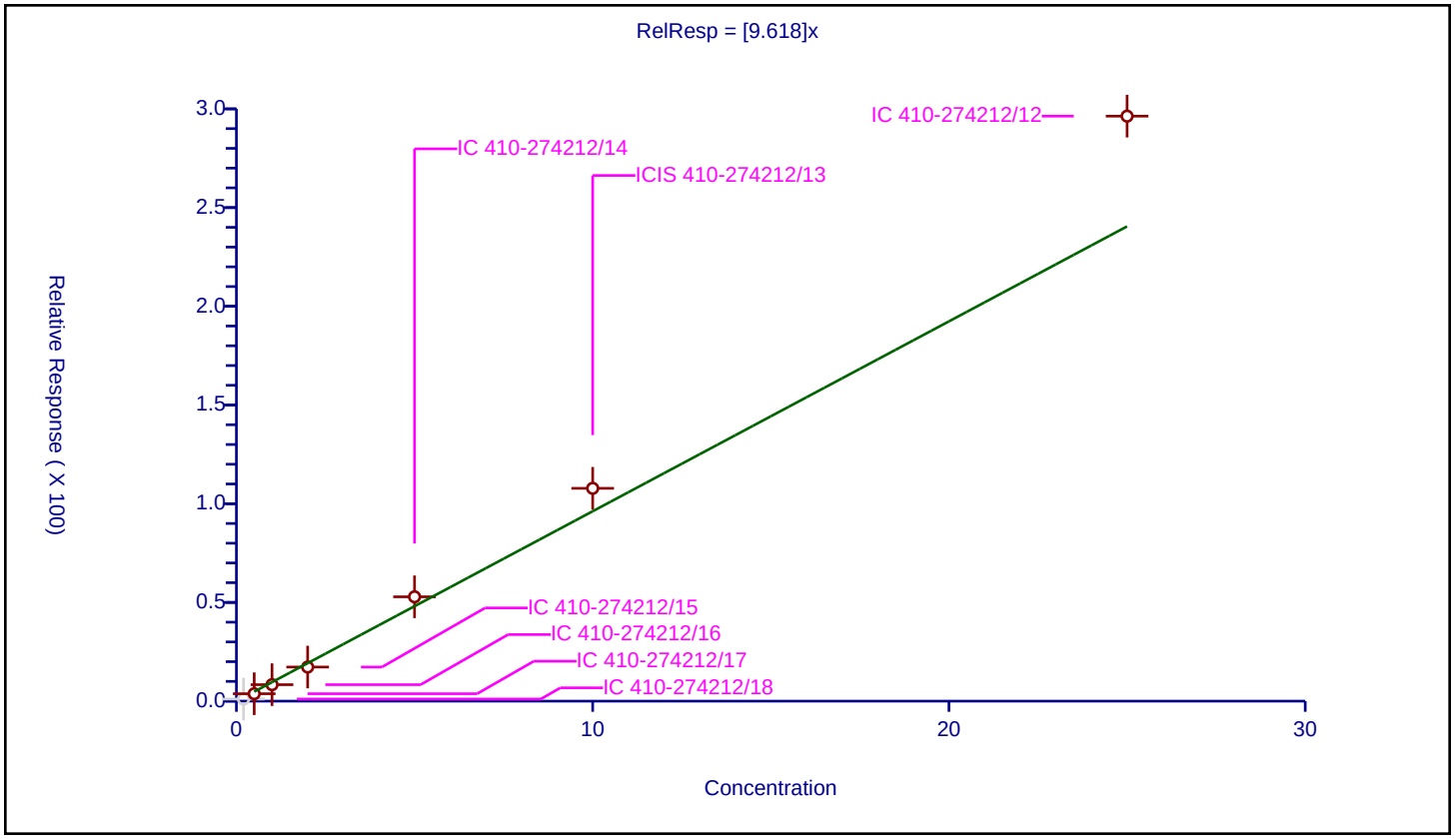
Curve Coefficients

Intercept:	0
Slope:	9.618

Error Coefficients

Standard Error:	460000
Relative Standard Error:	17.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	1.056644	50.0	161218.0	5.283219	N
2	IC 410-274212/17	0.5	3.763122	50.0	156891.0	7.526244	Y
3	IC 410-274212/16	1.0	8.342327	50.0	155670.0	8.342327	Y
4	IC 410-274212/15	2.0	17.275865	50.0	167734.0	8.637933	Y
5	IC 410-274212/14	5.0	52.853841	50.0	157069.0	10.570768	Y
6	ICIS 410-274212/13	10.0	107.80777	50.0	169786.0	10.780777	Y
7	IC 410-274212/12	25.0	296.322473	50.0	159455.0	11.852899	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

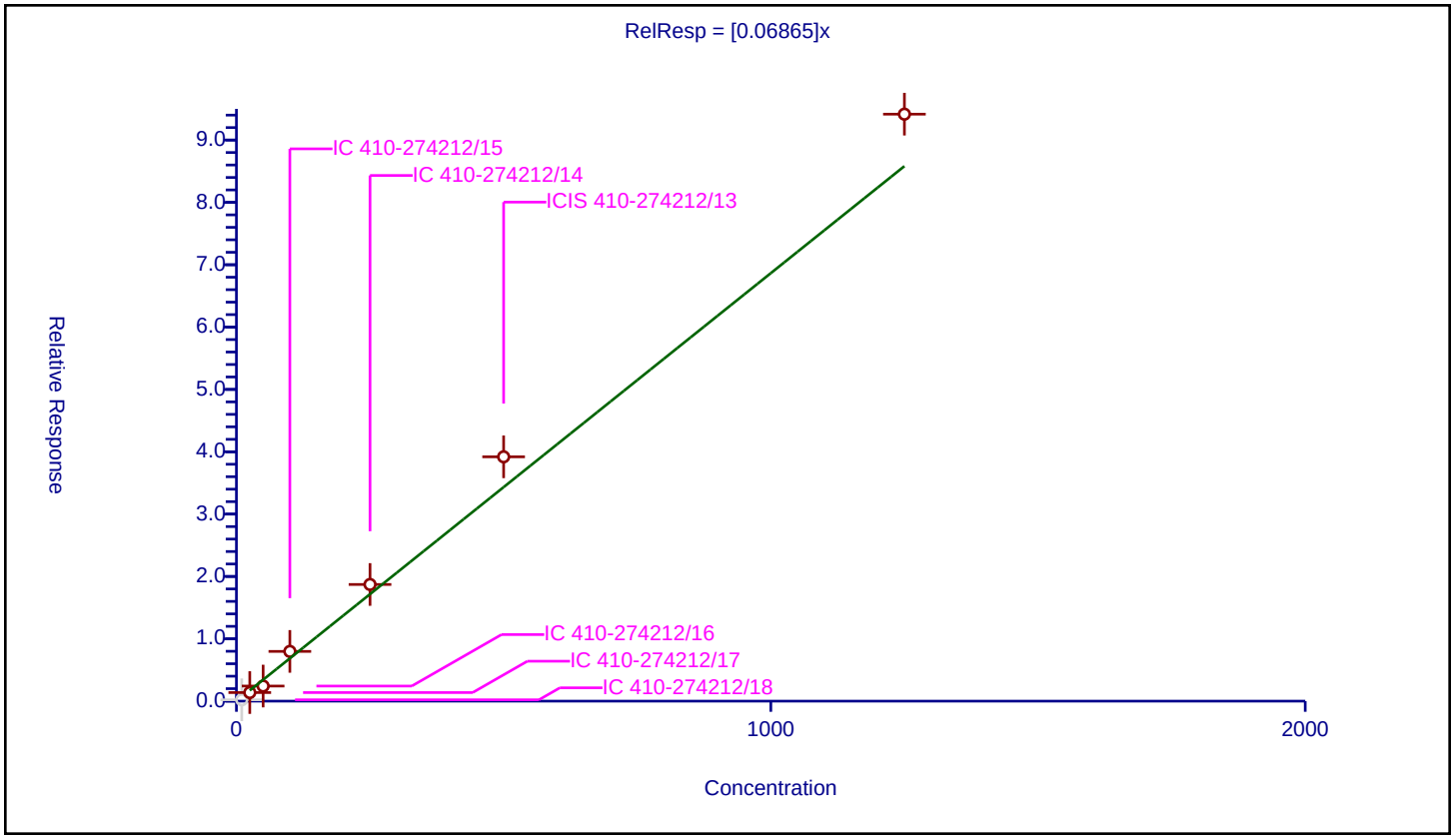
Curve Coefficients

Intercept:	0
Slope:	0.06865

Error Coefficients

Standard Error:	150000
Relative Standard Error:	19.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.955

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	10.0	0.215857	50.0	161218.0	0.021586	N
2	IC 410-274212/17	25.0	1.378983	50.0	156891.0	0.055159	Y
3	IC 410-274212/16	50.0	2.419541	50.0	155670.0	0.048391	Y
4	IC 410-274212/15	100.0	7.979002	50.0	167734.0	0.07979	Y
5	IC 410-274212/14	250.0	18.715978	50.0	157069.0	0.074864	Y
6	ICIS 410-274212/13	500.0	39.189921	50.0	169786.0	0.07838	Y
7	IC 410-274212/12	1250.0	94.154464	50.0	159455.0	0.075324	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

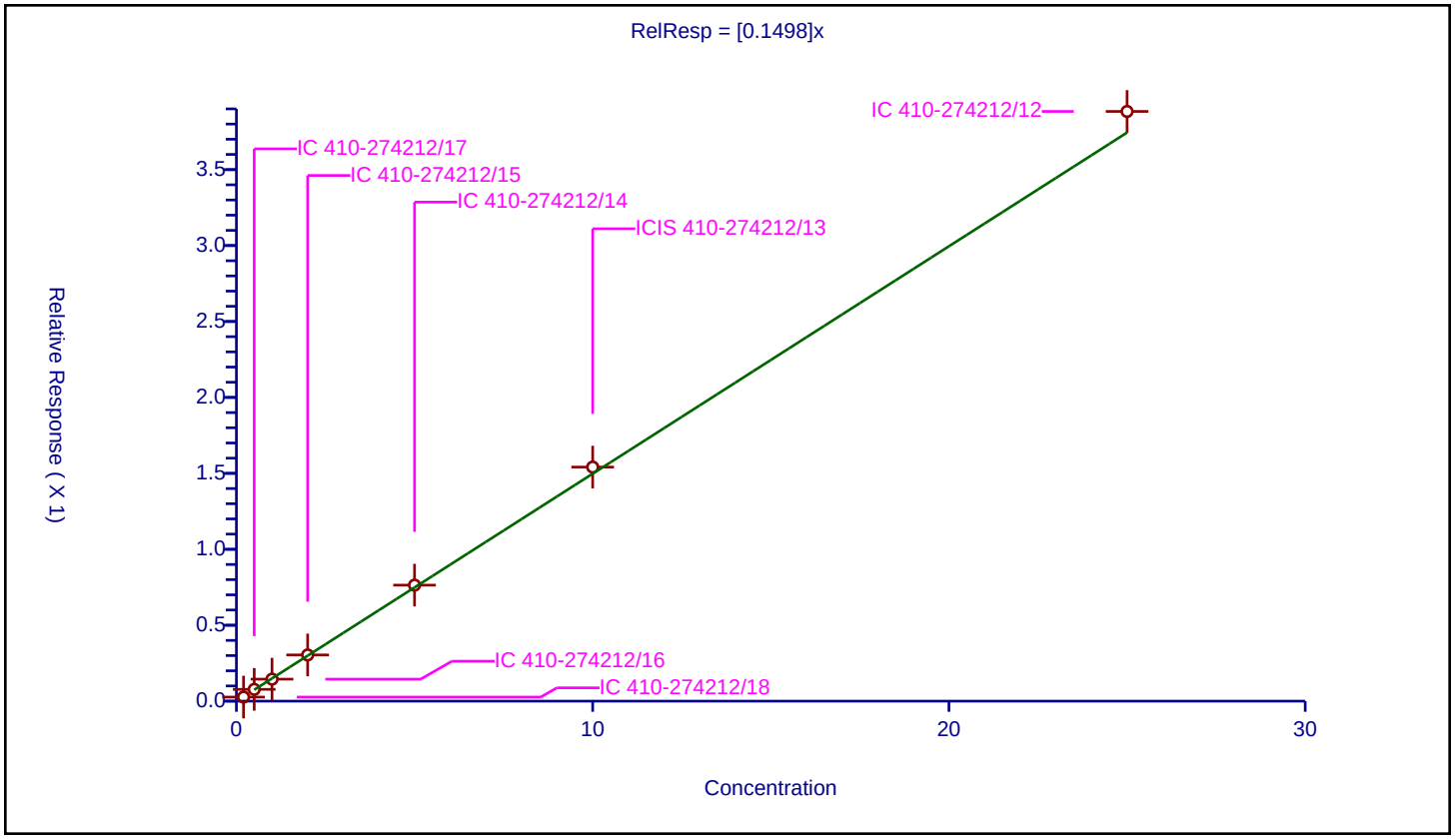
Curve Coefficients

Intercept:	0
Slope:	0.1498

Error Coefficients

Standard Error:	408000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.026829	10.0	2230453.0	0.134143	Y
2	IC 410-274212/17	0.5	0.077527	10.0	2227997.0	0.155054	Y
3	IC 410-274212/16	1.0	0.144837	10.0	2298931.0	0.144837	Y
4	IC 410-274212/15	2.0	0.304182	10.0	2342051.0	0.152091	Y
5	IC 410-274212/14	5.0	0.763851	10.0	2371836.0	0.15277	Y
6	ICIS 410-274212/13	10.0	1.541262	10.0	2357451.0	0.154126	Y
7	IC 410-274212/12	25.0	3.883134	10.0	2340890.0	0.155325	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

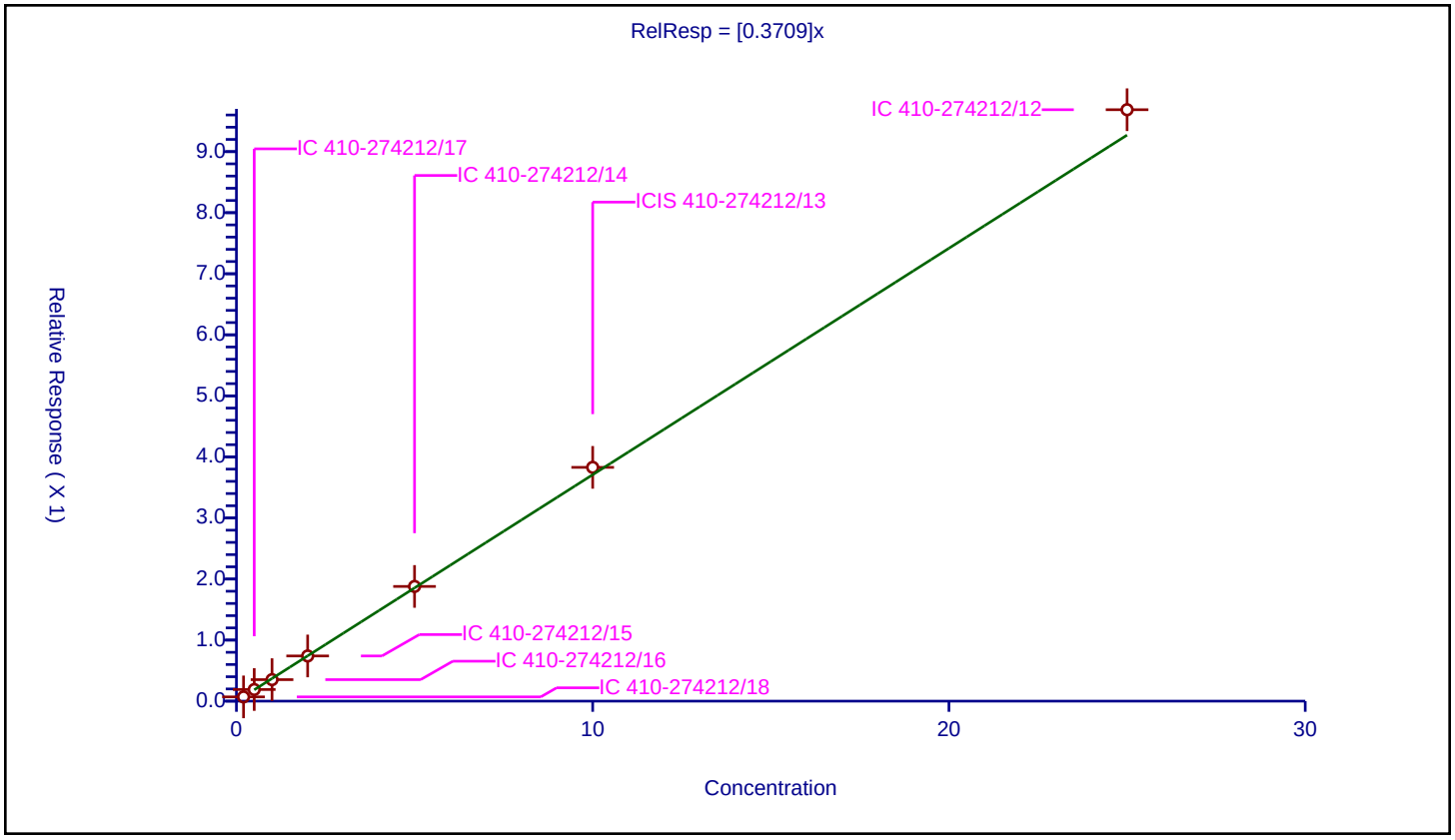
Curve Coefficients

Intercept:	0
Slope:	0.3709

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.069385	10.0	2230453.0	0.346925	Y
2	IC 410-274212/17	0.5	0.190413	10.0	2227997.0	0.380826	Y
3	IC 410-274212/16	1.0	0.352198	10.0	2298931.0	0.352198	Y
4	IC 410-274212/15	2.0	0.739945	10.0	2342051.0	0.369973	Y
5	IC 410-274212/14	5.0	1.878642	10.0	2371836.0	0.375728	Y
6	ICIS 410-274212/13	10.0	3.828907	10.0	2357451.0	0.382891	Y
7	IC 410-274212/12	25.0	9.686333	10.0	2340890.0	0.387453	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

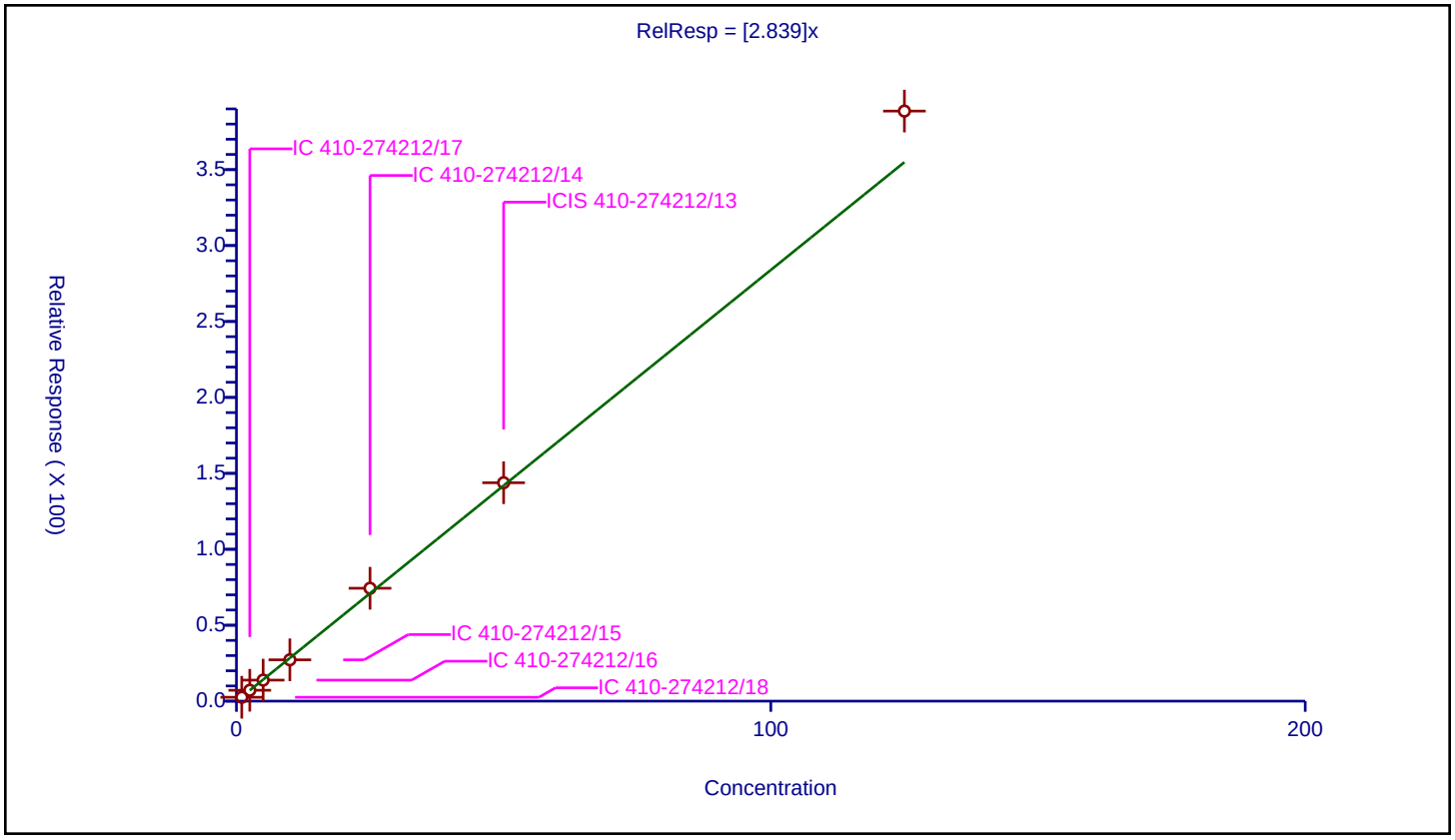
Curve Coefficients

Intercept:	0
Slope:	2.839

Error Coefficients

Standard Error:	554000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	1.0	2.557407	50.0	161218.0	2.557407	Y
2	IC 410-274212/17	2.5	7.168034	50.0	156891.0	2.867214	Y
3	IC 410-274212/16	5.0	13.849168	50.0	155670.0	2.769834	Y
4	IC 410-274212/15	10.0	27.21899	50.0	167734.0	2.721899	Y
5	IC 410-274212/14	25.0	74.329117	50.0	157069.0	2.973165	Y
6	ICIS 410-274212/13	50.0	143.818395	50.0	169786.0	2.876368	Y
7	IC 410-274212/12	125.0	388.569816	50.0	159455.0	3.108559	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

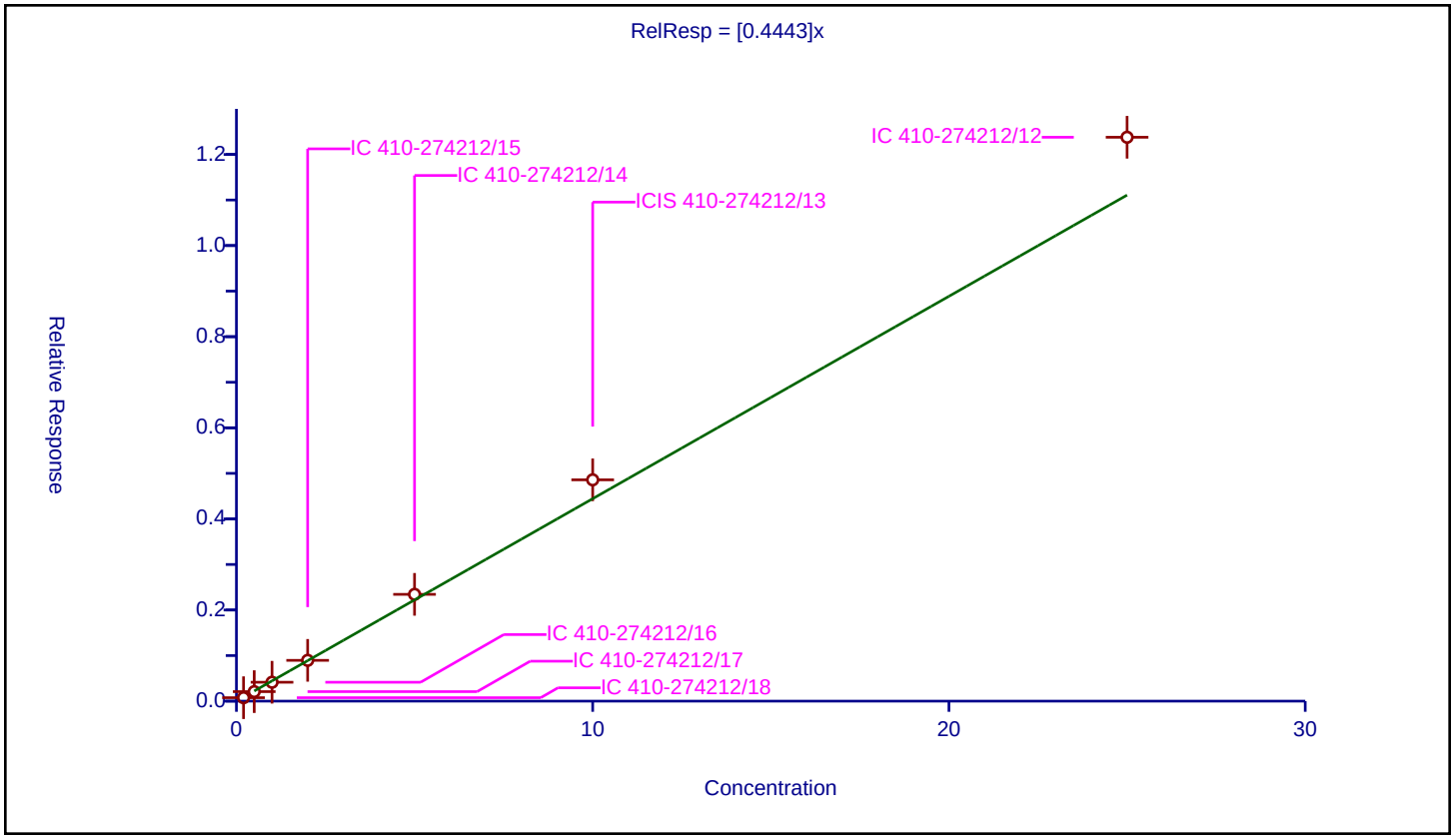
Curve Coefficients

Intercept:	0
Slope:	0.4443

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.075931	10.0	2230453.0	0.379654	Y
2	IC 410-274212/17	0.5	0.209224	10.0	2227997.0	0.418448	Y
3	IC 410-274212/16	1.0	0.414741	10.0	2298931.0	0.414741	Y
4	IC 410-274212/15	2.0	0.895506	10.0	2342051.0	0.447753	Y
5	IC 410-274212/14	5.0	2.344041	10.0	2371836.0	0.468808	Y
6	ICIS 410-274212/13	10.0	4.857925	10.0	2357451.0	0.485792	Y
7	IC 410-274212/12	25.0	12.377156	10.0	2340890.0	0.495086	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

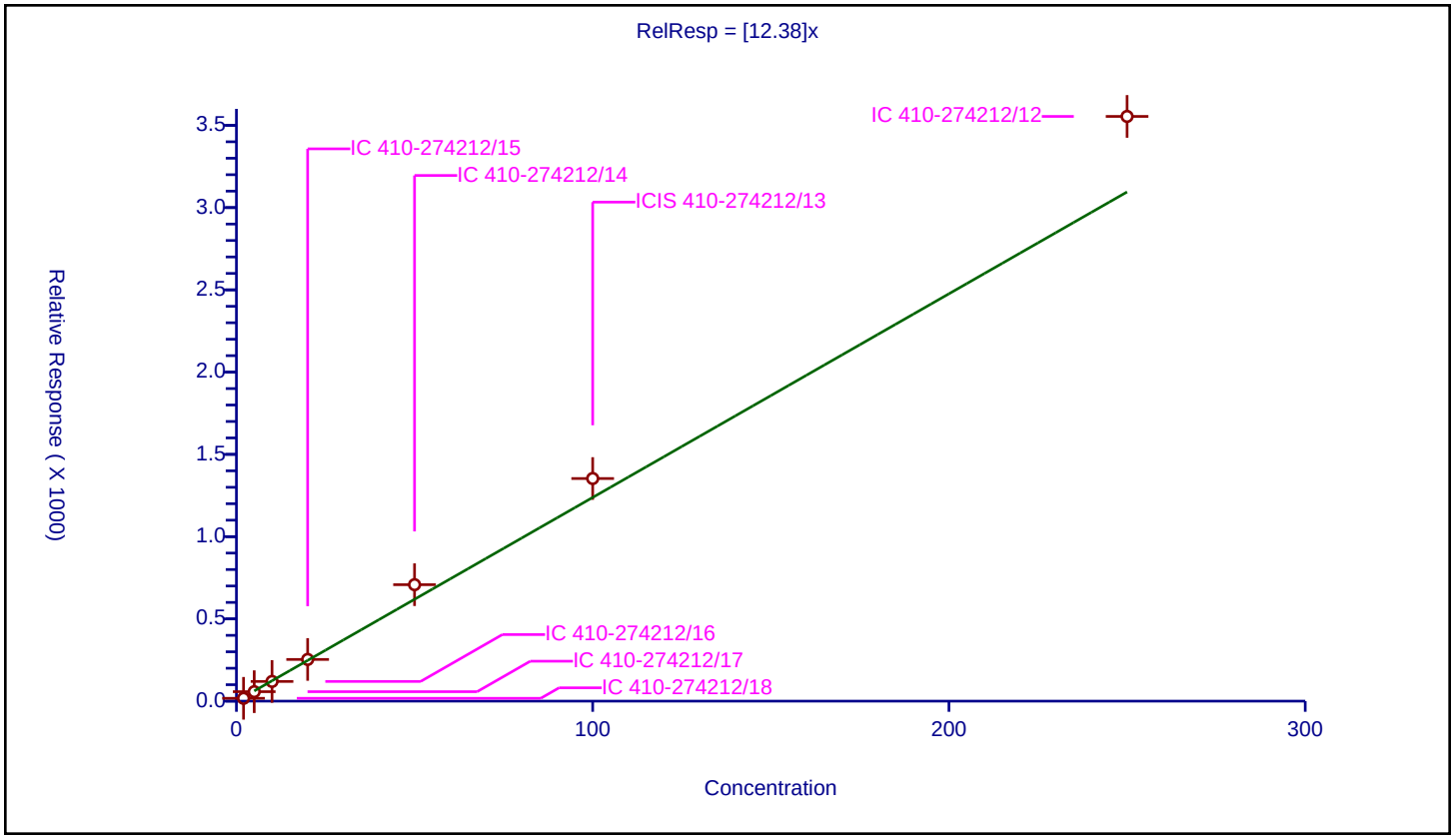
Curve Coefficients

Intercept:	0
Slope:	12.38

Error Coefficients

Standard Error:	5090000
Relative Standard Error:	15.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	2.0	17.207136	50.0	161218.0	8.603568	Y
2	IC 410-274212/17	5.0	57.505848	50.0	156891.0	11.50117	Y
3	IC 410-274212/16	10.0	119.766172	50.0	155670.0	11.976617	Y
4	IC 410-274212/15	20.0	253.504954	50.0	167734.0	12.675248	Y
5	IC 410-274212/14	50.0	707.941733	50.0	157069.0	14.158835	Y
6	ICIS 410-274212/13	100.0	1353.219641	50.0	169786.0	13.532196	Y
7	IC 410-274212/12	250.0	3554.20777	50.0	159455.0	14.216831	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

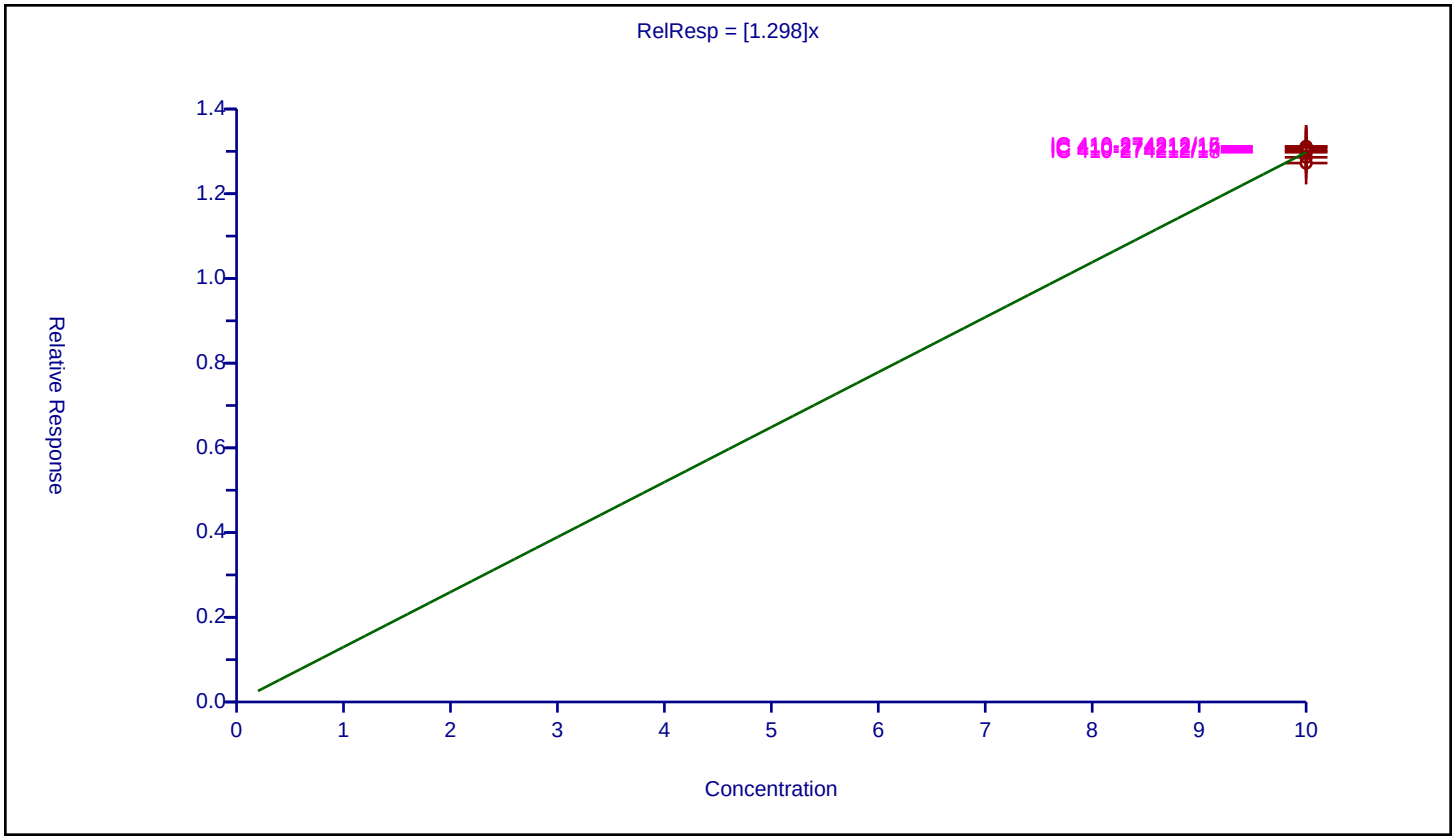
Curve Coefficients

Intercept:	0
Slope:	1.298

Error Coefficients

Standard Error:	2540000
Relative Standard Error:	1.1
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/12	10.0	12.723837	10.0	1873912.0	1.272384	Y
2	ICIS 410-274212/13	10.0	12.859747	10.0	1868480.0	1.285975	Y
3	IC 410-274212/14	10.0	13.051945	10.0	1851570.0	1.305195	Y
4	IC 410-274212/15	10.0	13.118008	10.0	1818084.0	1.311801	Y
5	IC 410-274212/16	10.0	13.10429	10.0	1797925.0	1.310429	Y
6	IC 410-274212/17	10.0	13.003085	10.0	1739265.0	1.300308	Y
7	IC 410-274212/18	10.0	12.978543	10.0	1726250.0	1.297854	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

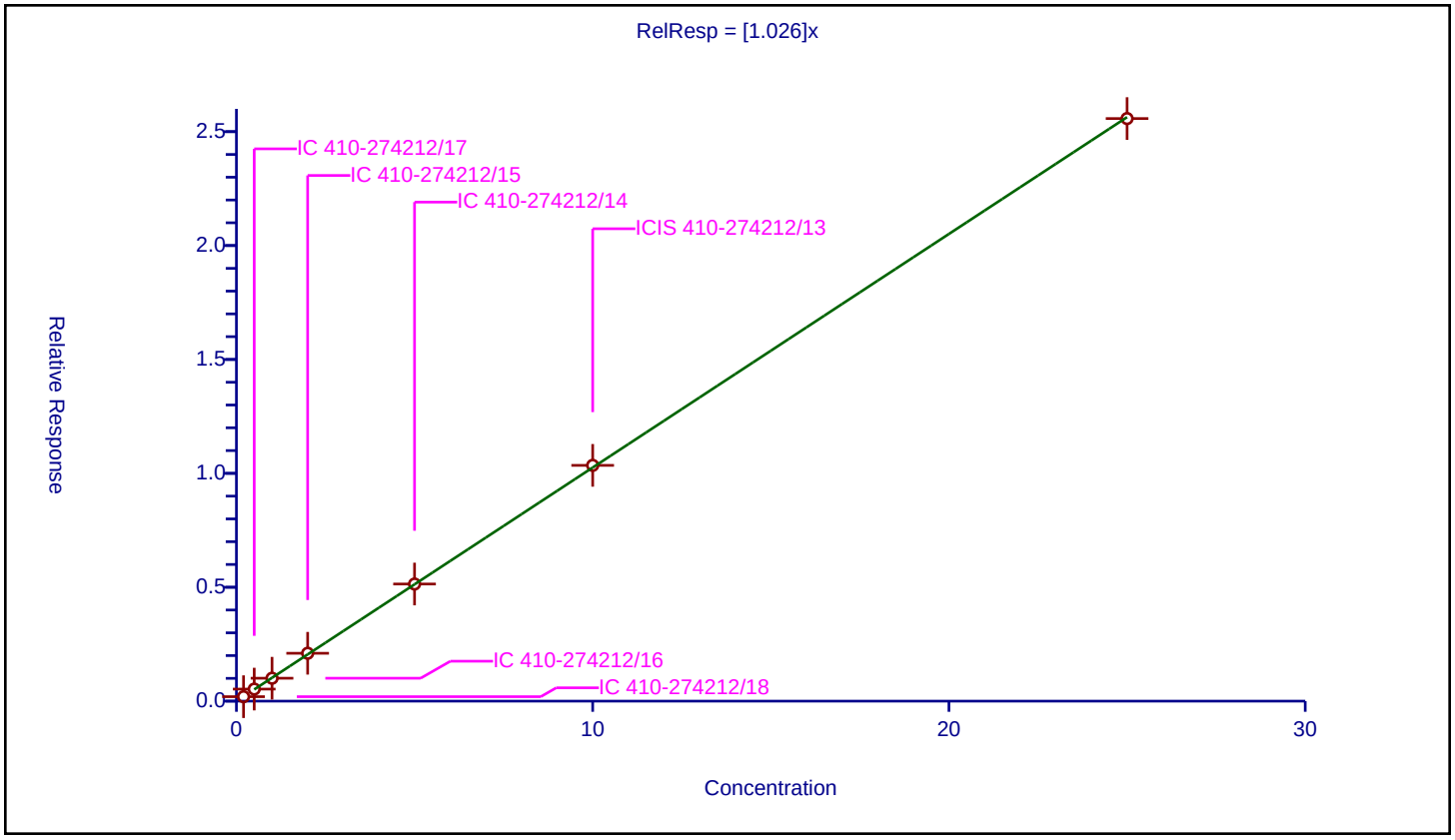
Curve Coefficients

Intercept:	0
Slope:	1.026

Error Coefficients

Standard Error:	2150000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.195279	10.0	1726250.0	0.976394	Y
2	IC 410-274212/17	0.5	0.529477	10.0	1739265.0	1.058953	Y
3	IC 410-274212/16	1.0	1.005604	10.0	1797925.0	1.005604	Y
4	IC 410-274212/15	2.0	2.102175	10.0	1818084.0	1.051087	Y
5	IC 410-274212/14	5.0	5.142079	10.0	1851570.0	1.028416	Y
6	ICIS 410-274212/13	10.0	10.350226	10.0	1868480.0	1.035023	Y
7	IC 410-274212/12	25.0	25.575972	10.0	1873912.0	1.023039	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

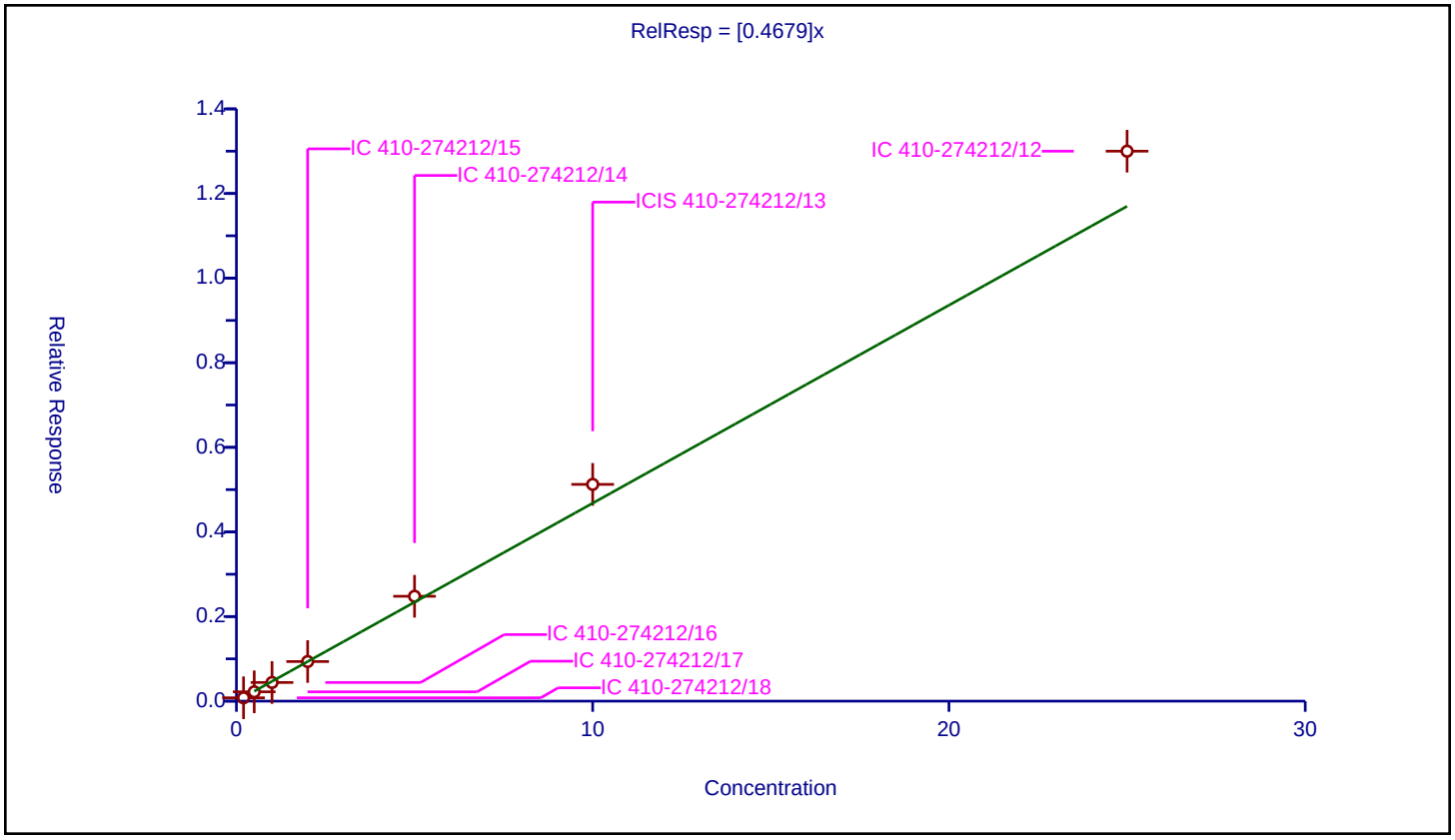
Curve Coefficients

Intercept:	0
Slope:	0.4679

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.079328	10.0	1726250.0	0.39664	Y
2	IC 410-274212/17	0.5	0.220852	10.0	1739265.0	0.441704	Y
3	IC 410-274212/16	1.0	0.440758	10.0	1797925.0	0.440758	Y
4	IC 410-274212/15	2.0	0.936442	10.0	1818084.0	0.468221	Y
5	IC 410-274212/14	5.0	2.479112	10.0	1851570.0	0.495822	Y
6	ICIS 410-274212/13	10.0	5.123972	10.0	1868480.0	0.512397	Y
7	IC 410-274212/12	25.0	13.000317	10.0	1873912.0	0.520013	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

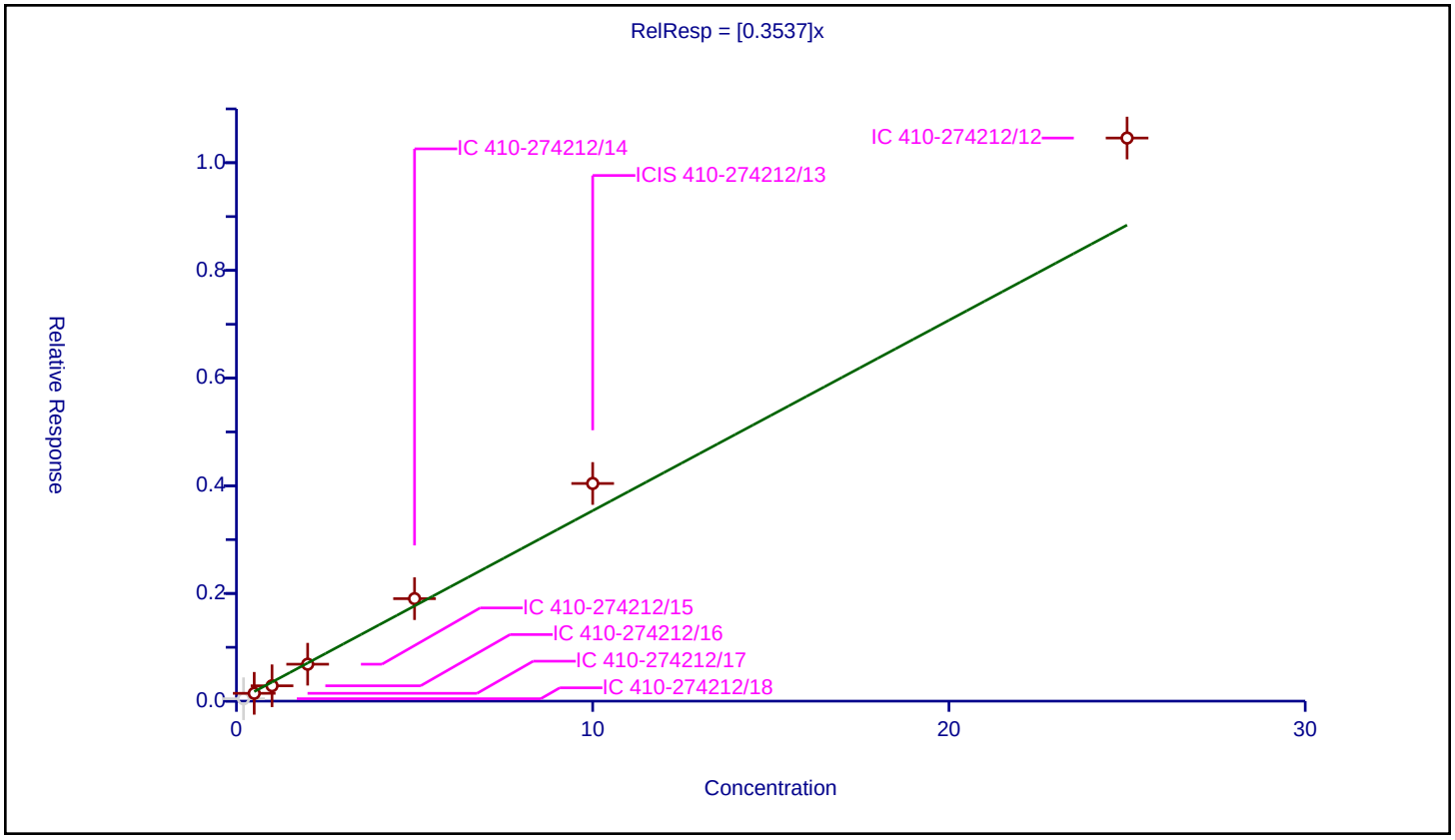
Curve Coefficients

Intercept:	0
Slope:	0.3537

Error Coefficients

Standard Error:	954000
Relative Standard Error:	16.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.044843	10.0	1726250.0	0.224214	N
2	IC 410-274212/17	0.5	0.1454	10.0	1739265.0	0.290801	Y
3	IC 410-274212/16	1.0	0.285101	10.0	1797925.0	0.285101	Y
4	IC 410-274212/15	2.0	0.686079	10.0	1818084.0	0.34304	Y
5	IC 410-274212/14	5.0	1.903179	10.0	1851570.0	0.380636	Y
6	ICIS 410-274212/13	10.0	4.042698	10.0	1868480.0	0.40427	Y
7	IC 410-274212/12	25.0	10.458949	10.0	1873912.0	0.418358	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

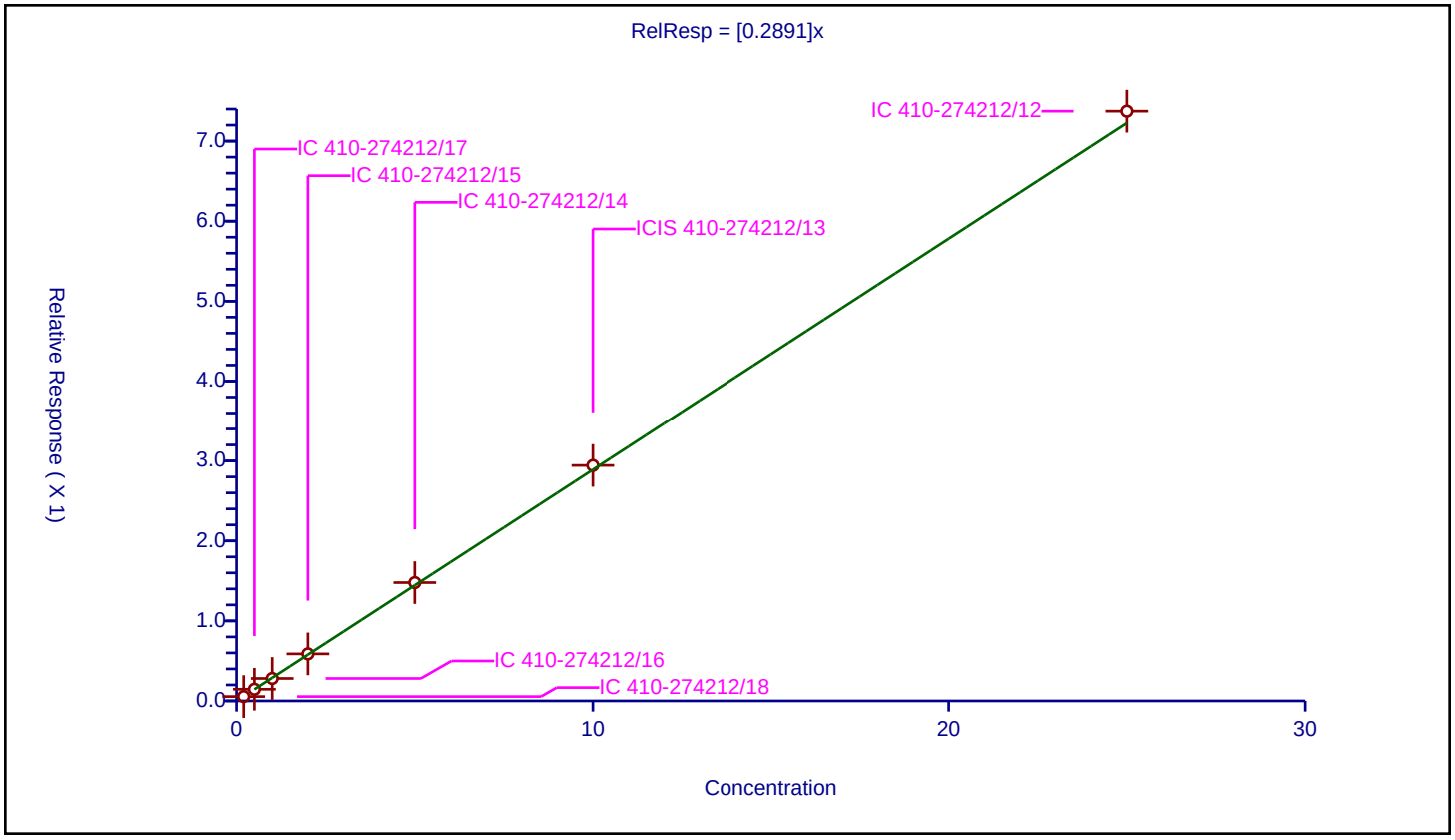
Curve Coefficients

Intercept:	0
Slope:	0.2891

Error Coefficients

Standard Error:	619000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.054442	10.0	1726250.0	0.272209	Y
2	IC 410-274212/17	0.5	0.145774	10.0	1739265.0	0.291548	Y
3	IC 410-274212/16	1.0	0.280763	10.0	1797925.0	0.280763	Y
4	IC 410-274212/15	2.0	0.587833	10.0	1818084.0	0.293917	Y
5	IC 410-274212/14	5.0	1.478632	10.0	1851570.0	0.295726	Y
6	ICIS 410-274212/13	10.0	2.943569	10.0	1868480.0	0.294357	Y
7	IC 410-274212/12	25.0	7.373457	10.0	1873912.0	0.294938	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

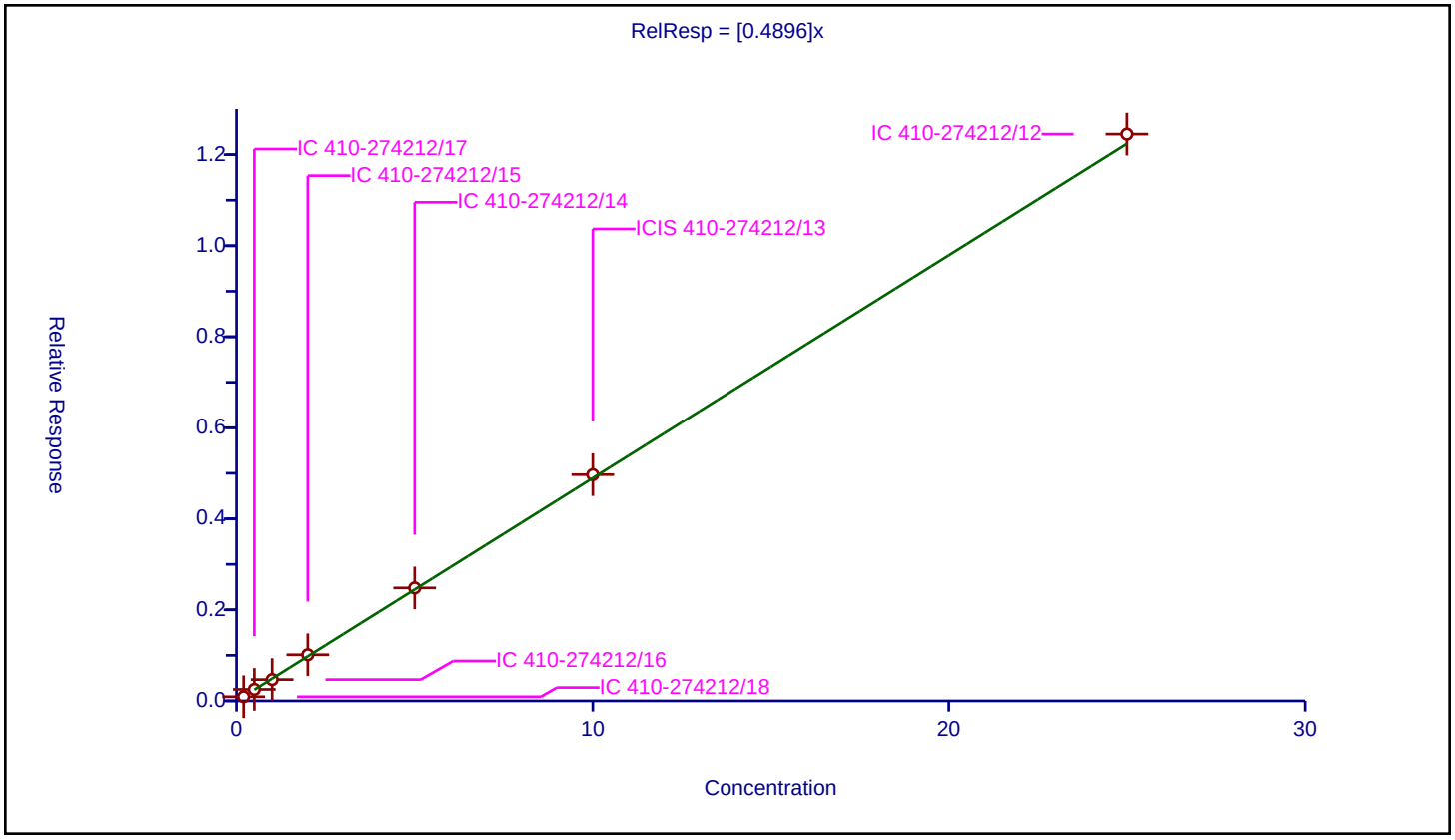
Curve Coefficients

Intercept:	0
Slope:	0.4896

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.091476	10.0	1726250.0	0.457379	Y
2	IC 410-274212/17	0.5	0.252003	10.0	1739265.0	0.504006	Y
3	IC 410-274212/16	1.0	0.467839	10.0	1797925.0	0.467839	Y
4	IC 410-274212/15	2.0	1.013149	10.0	1818084.0	0.506575	Y
5	IC 410-274212/14	5.0	2.481667	10.0	1851570.0	0.496333	Y
6	ICIS 410-274212/13	10.0	4.970077	10.0	1868480.0	0.497008	Y
7	IC 410-274212/12	25.0	12.449656	10.0	1873912.0	0.497986	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

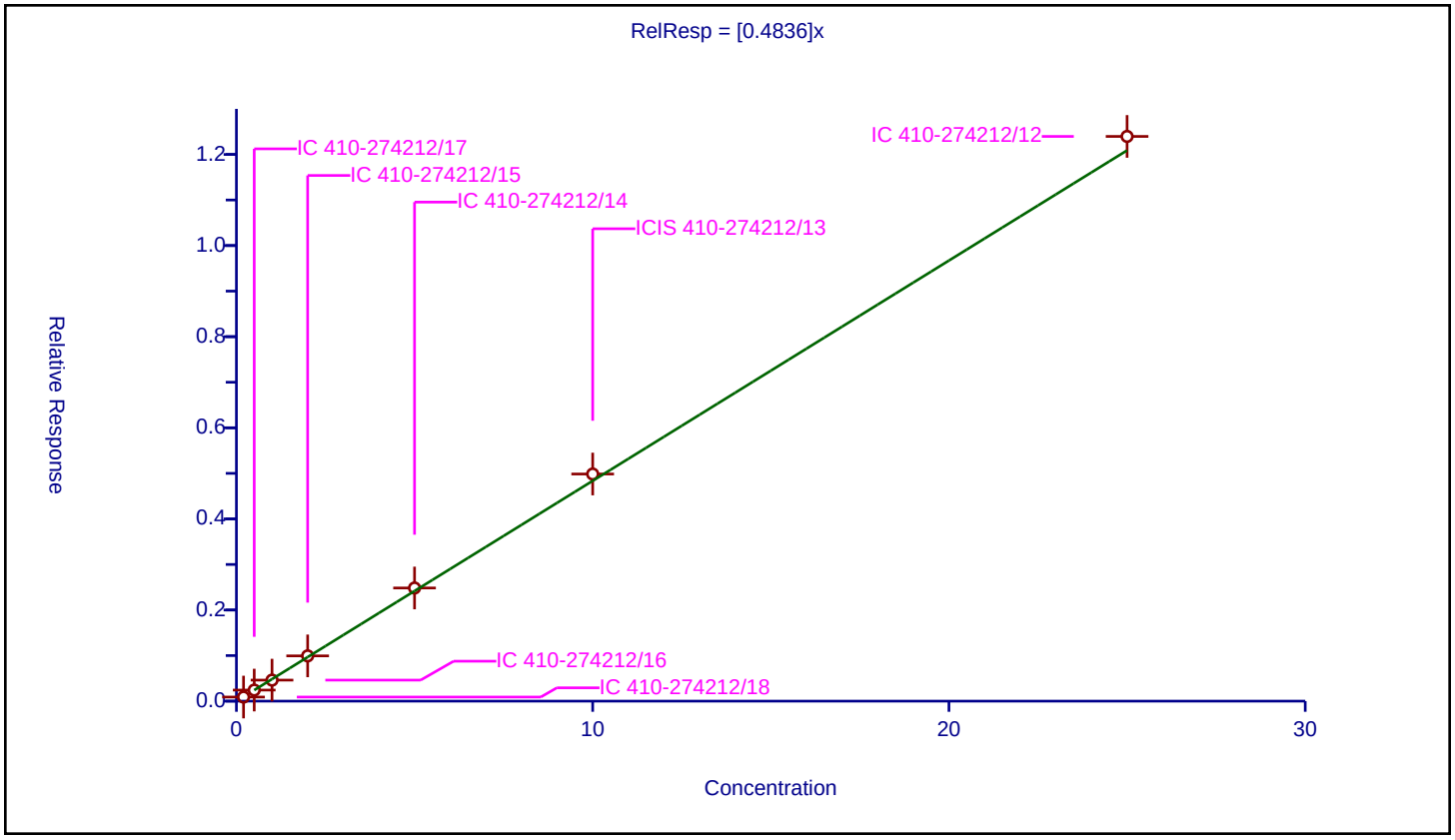
Curve Coefficients

Intercept:	0
Slope:	0.4836

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.089778	10.0	1726250.0	0.448892	Y
2	IC 410-274212/17	0.5	0.243097	10.0	1739265.0	0.486194	Y
3	IC 410-274212/16	1.0	0.46176	10.0	1797925.0	0.46176	Y
4	IC 410-274212/15	2.0	0.993766	10.0	1818084.0	0.496883	Y
5	IC 410-274212/14	5.0	2.483849	10.0	1851570.0	0.49677	Y
6	ICIS 410-274212/13	10.0	4.985373	10.0	1868480.0	0.498537	Y
7	IC 410-274212/12	25.0	12.395764	10.0	1873912.0	0.495831	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

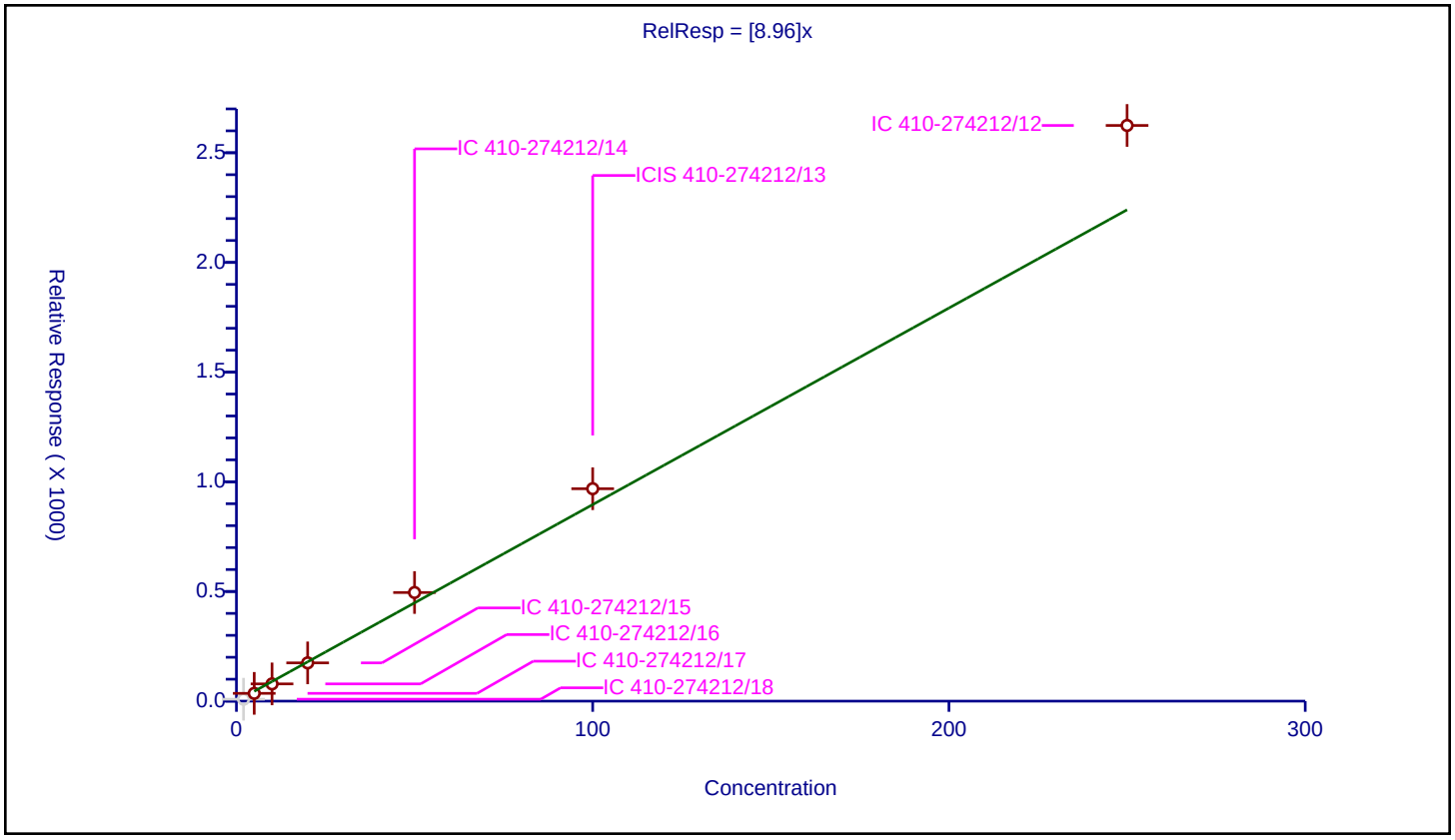
Curve Coefficients

Intercept:	0
Slope:	8.96

Error Coefficients

Standard Error:	4090000
Relative Standard Error:	14.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	2.0	8.812912	50.0	161218.0	4.406456	N
2	IC 410-274212/17	5.0	35.476541	50.0	156891.0	7.095308	Y
3	IC 410-274212/16	10.0	78.604098	50.0	155670.0	7.86041	Y
4	IC 410-274212/15	20.0	174.382057	50.0	167734.0	8.719103	Y
5	IC 410-274212/14	50.0	495.26864	50.0	157069.0	9.905373	Y
6	ICIS 410-274212/13	100.0	968.446751	50.0	169786.0	9.684468	Y
7	IC 410-274212/12	250.0	2624.45204	50.0	159455.0	10.497808	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

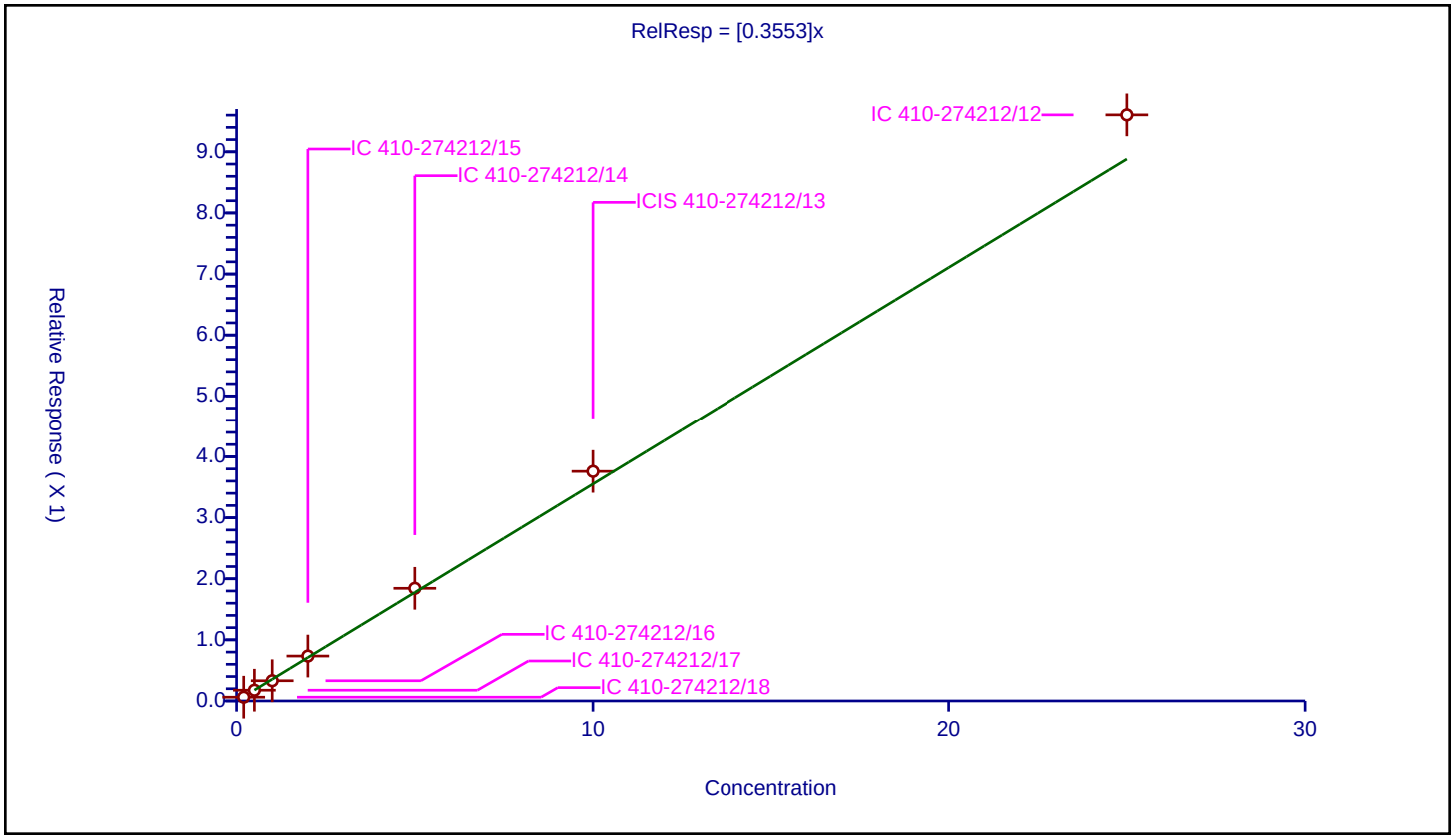
Curve Coefficients

Intercept:	0
Slope:	0.3553

Error Coefficients

Standard Error:	803000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.061636	10.0	1726250.0	0.308182	Y
2	IC 410-274212/17	0.5	0.175931	10.0	1739265.0	0.351861	Y
3	IC 410-274212/16	1.0	0.330665	10.0	1797925.0	0.330665	Y
4	IC 410-274212/15	2.0	0.734785	10.0	1818084.0	0.367392	Y
5	IC 410-274212/14	5.0	1.843819	10.0	1851570.0	0.368764	Y
6	ICIS 410-274212/13	10.0	3.759484	10.0	1868480.0	0.375948	Y
7	IC 410-274212/12	25.0	9.604357	10.0	1873912.0	0.384174	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

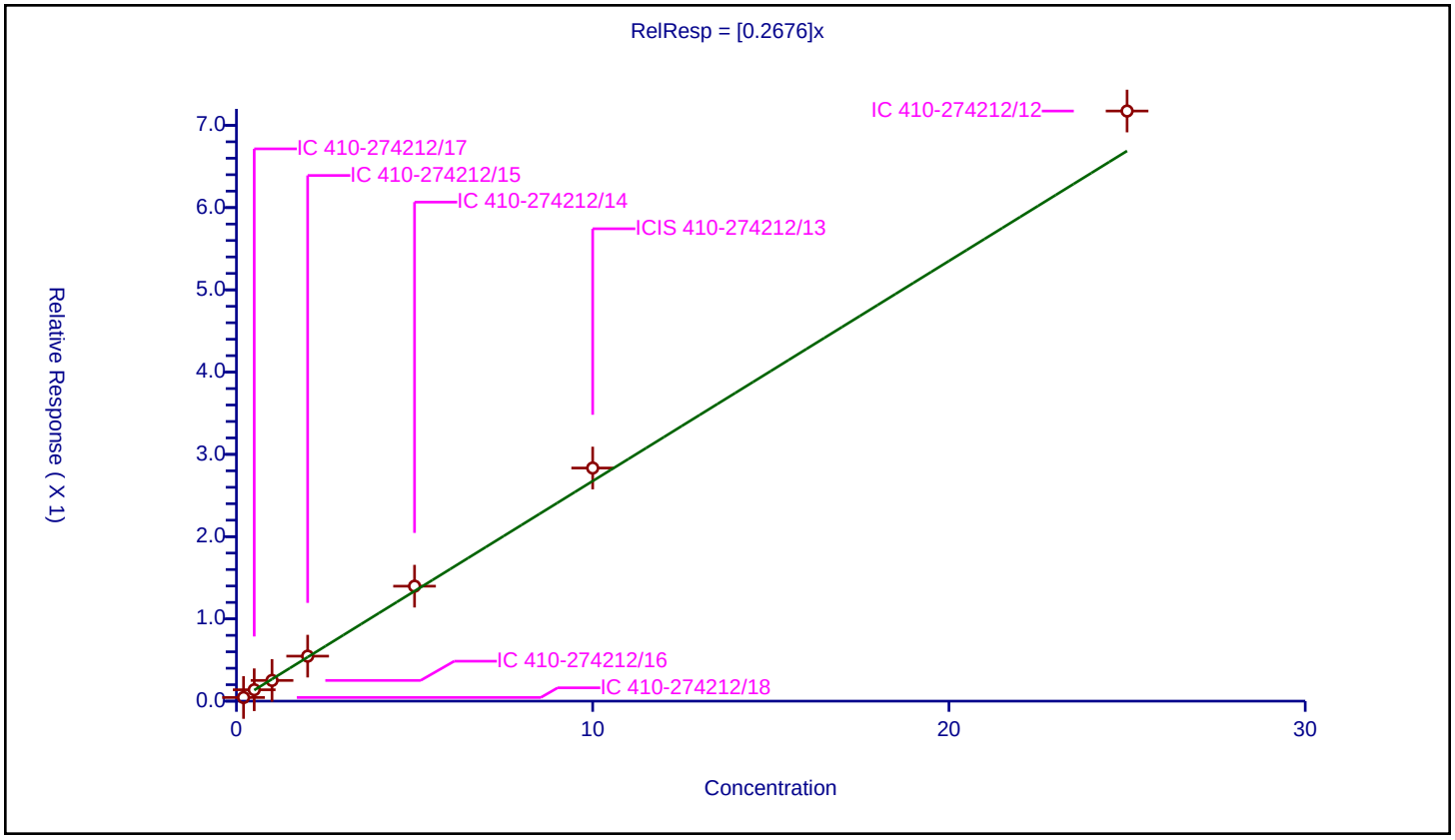
Curve Coefficients

Intercept:	0
Slope:	0.2676

Error Coefficients

Standard Error:	601000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.044188	10.0	1726250.0	0.220941	Y
2	IC 410-274212/17	0.5	0.138329	10.0	1739265.0	0.276657	Y
3	IC 410-274212/16	1.0	0.251874	10.0	1797925.0	0.251874	Y
4	IC 410-274212/15	2.0	0.547032	10.0	1818084.0	0.273516	Y
5	IC 410-274212/14	5.0	1.397798	10.0	1851570.0	0.27956	Y
6	ICIS 410-274212/13	10.0	2.833961	10.0	1868480.0	0.283396	Y
7	IC 410-274212/12	25.0	7.174206	10.0	1873912.0	0.286968	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

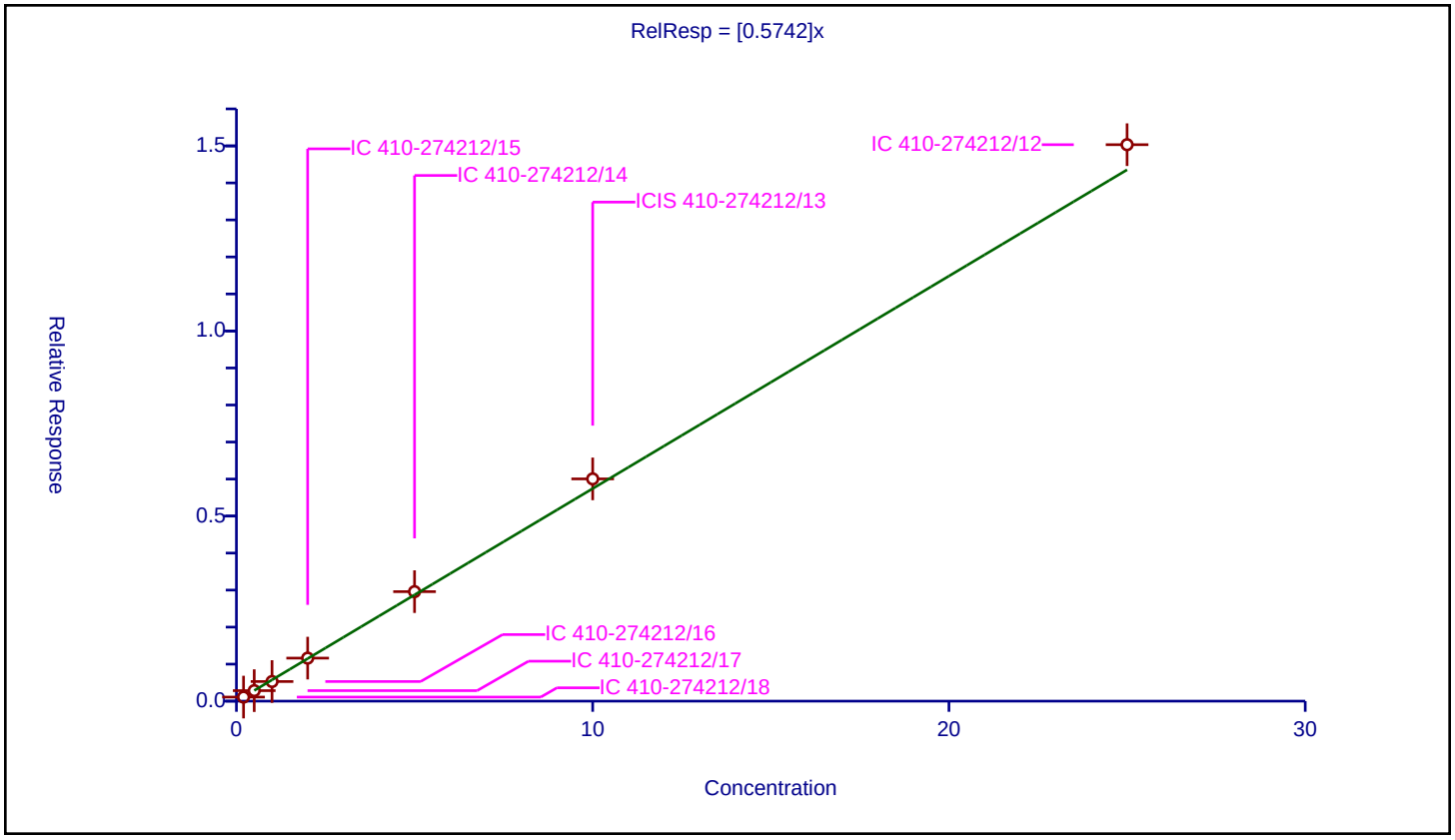
Curve Coefficients

Intercept:	0
Slope:	0.5742

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.109393	10.0	1726250.0	0.546966	Y
2	IC 410-274212/17	0.5	0.284114	10.0	1739265.0	0.568229	Y
3	IC 410-274212/16	1.0	0.529755	10.0	1797925.0	0.529755	Y
4	IC 410-274212/15	2.0	1.162427	10.0	1818084.0	0.581214	Y
5	IC 410-274212/14	5.0	2.958176	10.0	1851570.0	0.591635	Y
6	ICIS 410-274212/13	10.0	6.004003	10.0	1868480.0	0.6004	Y
7	IC 410-274212/12	25.0	15.032995	10.0	1873912.0	0.60132	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

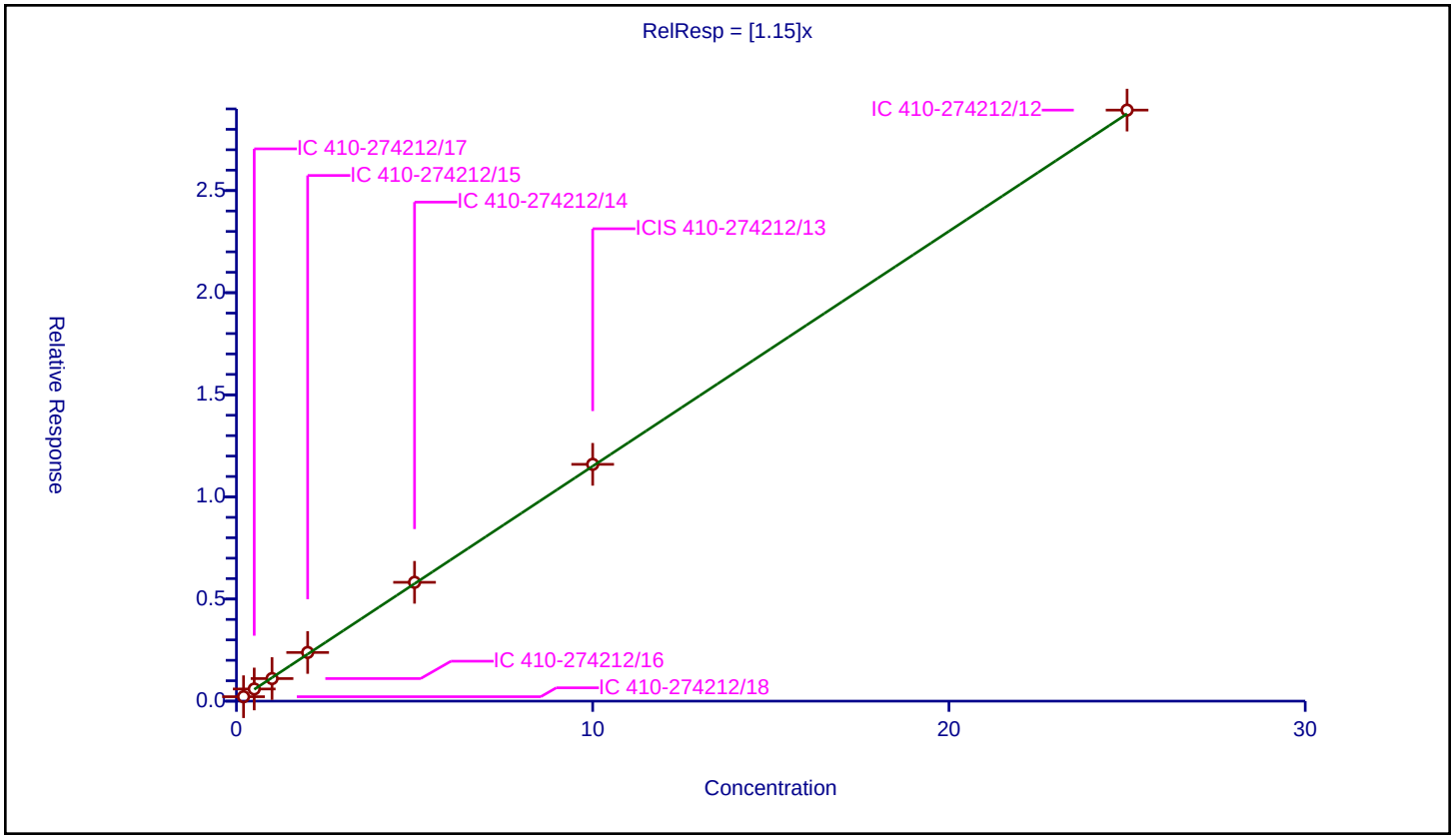
Curve Coefficients

Intercept:	0
Slope:	1.15

Error Coefficients

Standard Error:	2430000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.216747	10.0	1726250.0	1.083736	Y
2	IC 410-274212/17	0.5	0.595855	10.0	1739265.0	1.19171	Y
3	IC 410-274212/16	1.0	1.105363	10.0	1797925.0	1.105363	Y
4	IC 410-274212/15	2.0	2.382866	10.0	1818084.0	1.191433	Y
5	IC 410-274212/14	5.0	5.817933	10.0	1851570.0	1.163587	Y
6	ICIS 410-274212/13	10.0	11.596528	10.0	1868480.0	1.159653	Y
7	IC 410-274212/12	25.0	28.940975	10.0	1873912.0	1.157639	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

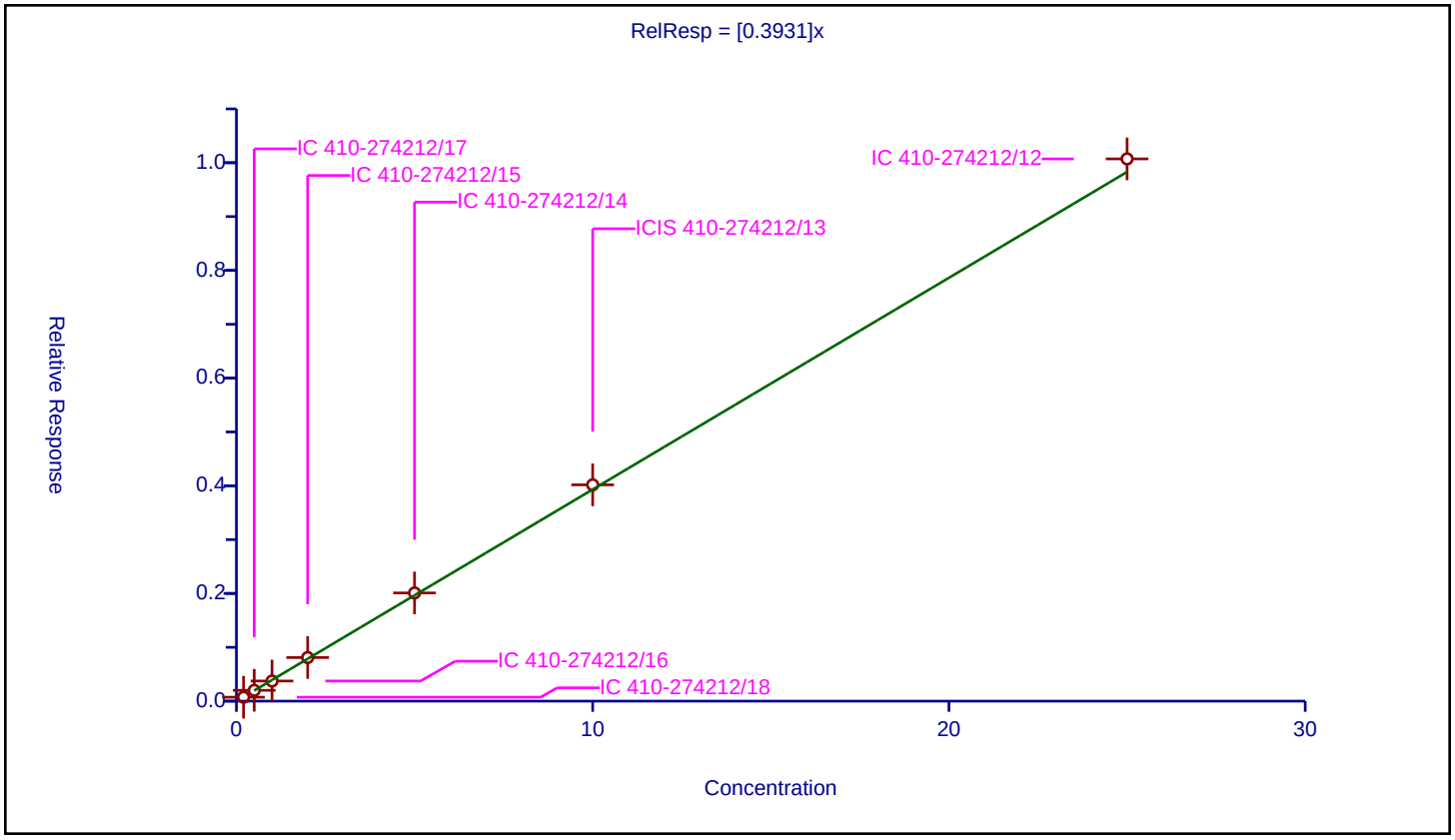
Curve Coefficients

Intercept:	0
Slope:	0.3931

Error Coefficients

Standard Error:	846000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.07306	10.0	1726250.0	0.365301	Y
2	IC 410-274212/17	0.5	0.201033	10.0	1739265.0	0.402066	Y
3	IC 410-274212/16	1.0	0.373536	10.0	1797925.0	0.373536	Y
4	IC 410-274212/15	2.0	0.80933	10.0	1818084.0	0.404665	Y
5	IC 410-274212/14	5.0	2.009279	10.0	1851570.0	0.401856	Y
6	ICIS 410-274212/13	10.0	4.01756	10.0	1868480.0	0.401756	Y
7	IC 410-274212/12	25.0	10.071471	10.0	1873912.0	0.402859	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

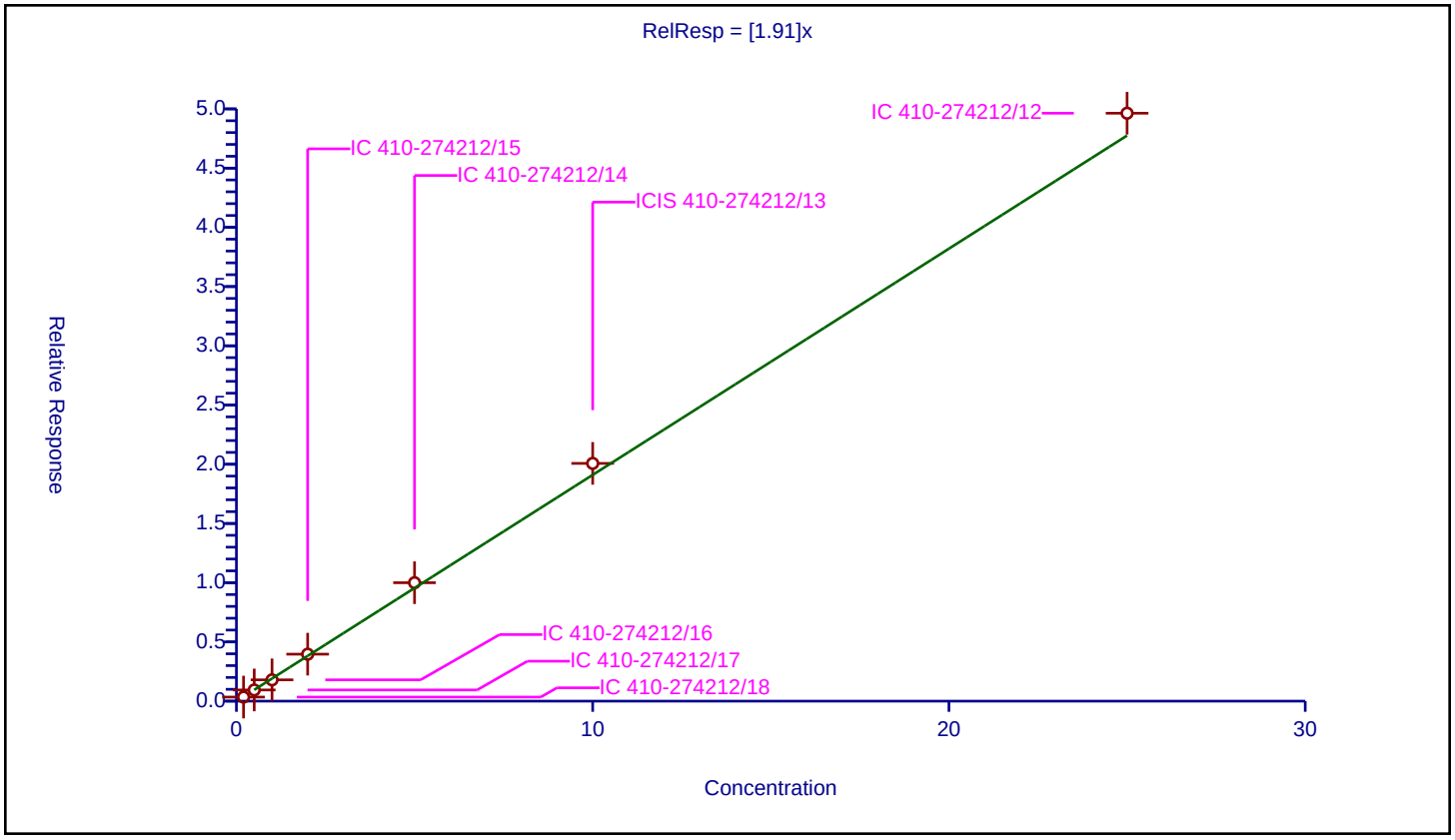
Curve Coefficients

Intercept:	0
Slope:	1.91

Error Coefficients

Standard Error:	4180000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.342083	10.0	1726250.0	1.710413	Y
2	IC 410-274212/17	0.5	0.943399	10.0	1739265.0	1.886797	Y
3	IC 410-274212/16	1.0	1.79814	10.0	1797925.0	1.79814	Y
4	IC 410-274212/15	2.0	3.964184	10.0	1818084.0	1.982092	Y
5	IC 410-274212/14	5.0	9.999292	10.0	1851570.0	1.999858	Y
6	ICIS 410-274212/13	10.0	20.071593	10.0	1868480.0	2.007159	Y
7	IC 410-274212/12	25.0	49.636605	10.0	1873912.0	1.985464	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

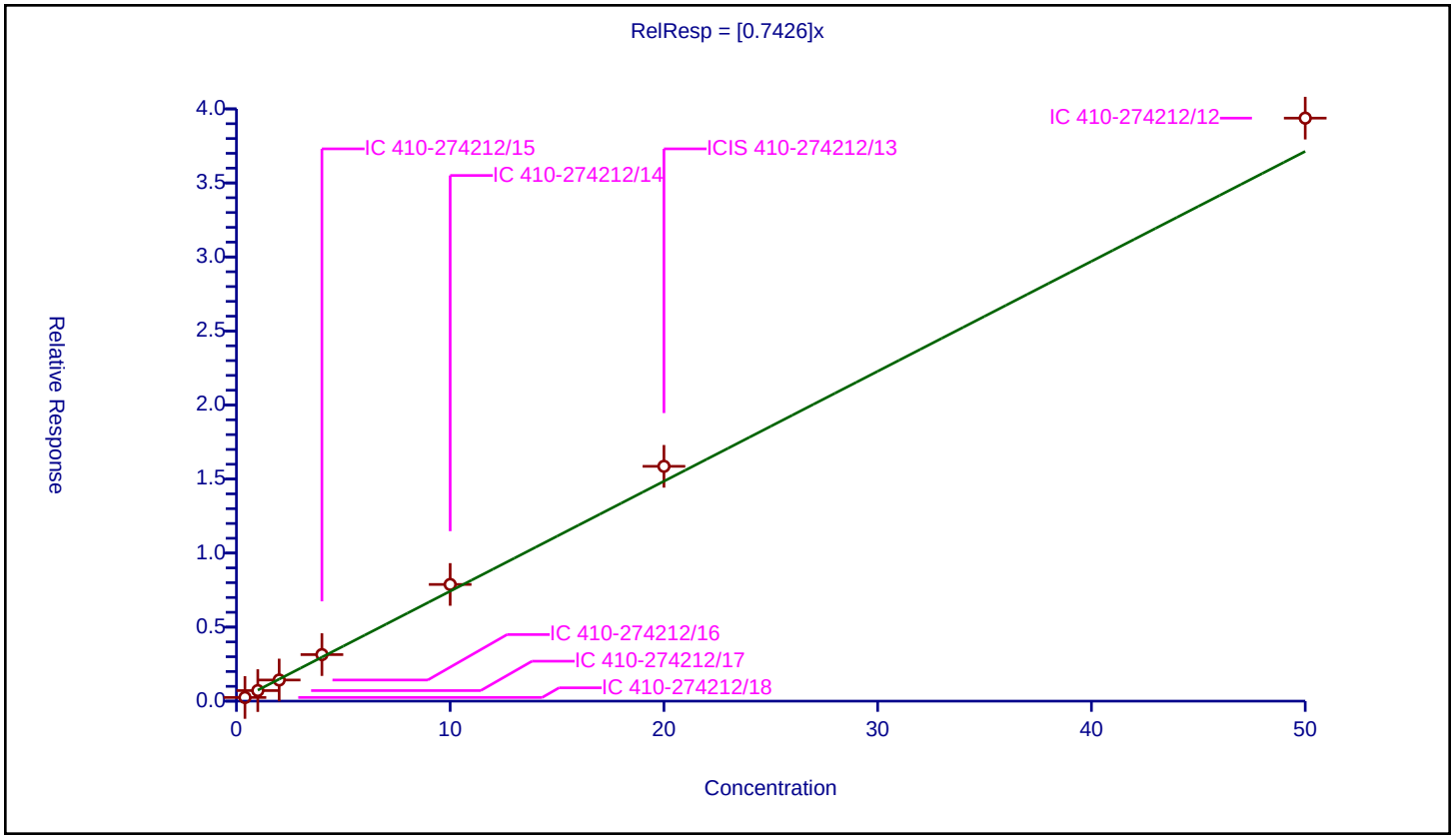
Curve Coefficients

Intercept:	0
Slope:	0.7426

Error Coefficients

Standard Error:	3310000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.4	0.247073	10.0	1726250.0	0.617683	Y
2	IC 410-274212/17	1.0	0.712721	10.0	1739265.0	0.712721	Y
3	IC 410-274212/16	2.0	1.4265	10.0	1797925.0	0.71325	Y
4	IC 410-274212/15	4.0	3.143755	10.0	1818084.0	0.785939	Y
5	IC 410-274212/14	10.0	7.881355	10.0	1851570.0	0.788135	Y
6	ICIS 410-274212/13	20.0	15.859645	10.0	1868480.0	0.792982	Y
7	IC 410-274212/12	50.0	39.375985	10.0	1873912.0	0.78752	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

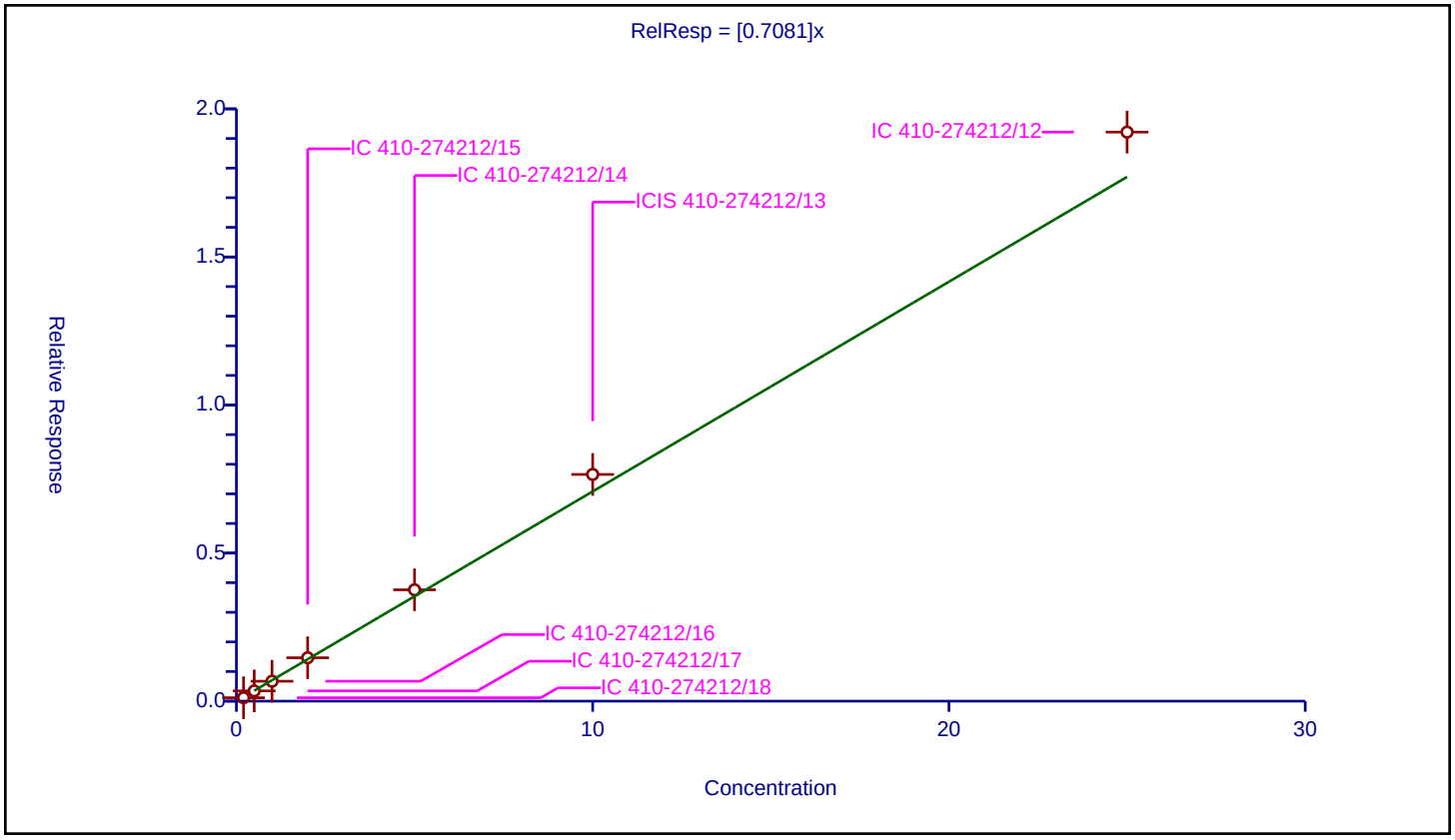
Curve Coefficients

Intercept:	0
Slope:	0.7081

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.114839	10.0	1726250.0	0.574193	Y
2	IC 410-274212/17	0.5	0.346192	10.0	1739265.0	0.692384	Y
3	IC 410-274212/16	1.0	0.671902	10.0	1797925.0	0.671902	Y
4	IC 410-274212/15	2.0	1.464459	10.0	1818084.0	0.73223	Y
5	IC 410-274212/14	5.0	3.760079	10.0	1851570.0	0.752016	Y
6	ICIS 410-274212/13	10.0	7.655731	10.0	1868480.0	0.765573	Y
7	IC 410-274212/12	25.0	19.216052	10.0	1873912.0	0.768642	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

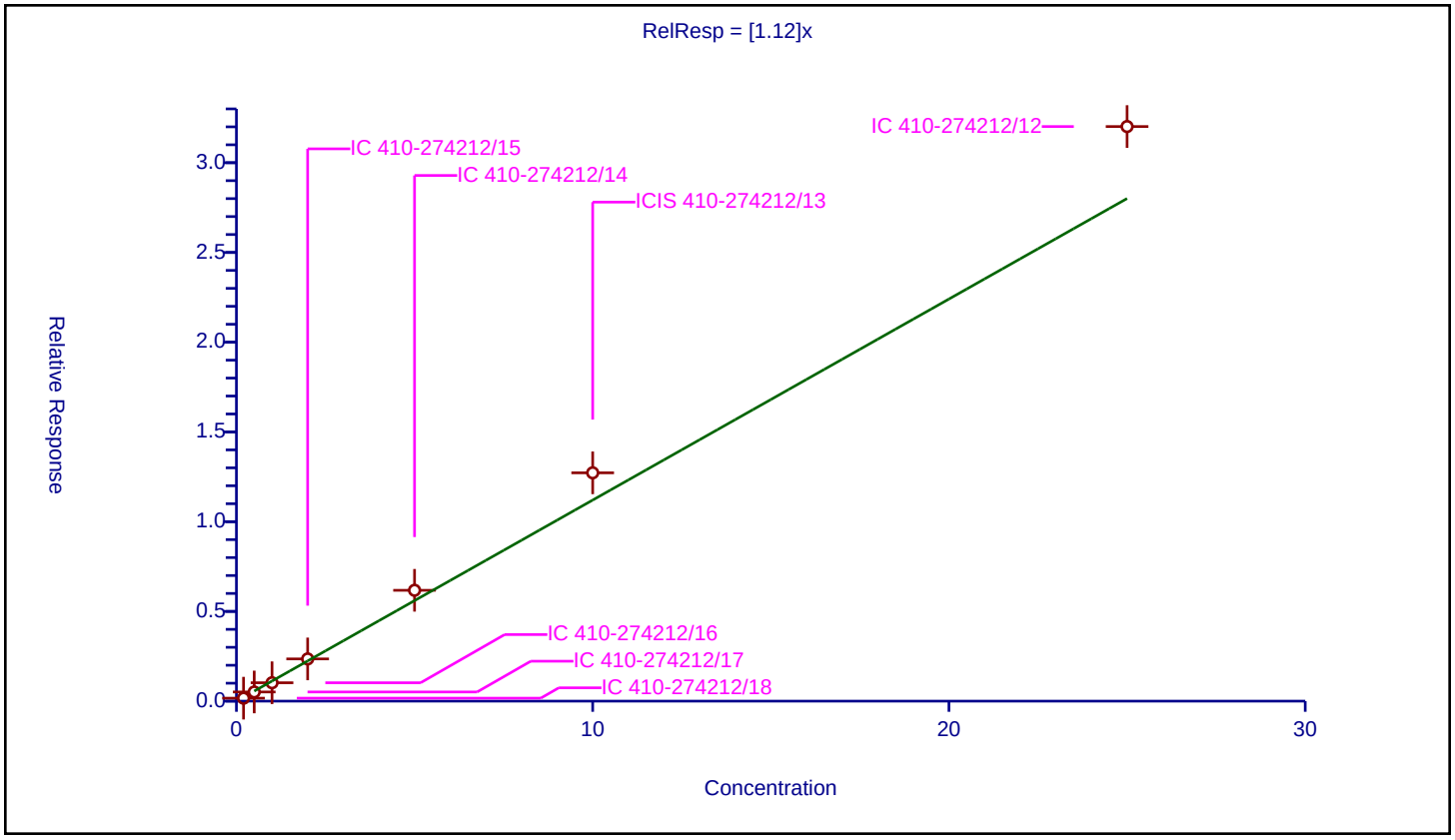
Curve Coefficients

Intercept:	0
Slope:	1.12

Error Coefficients

Standard Error:	2680000
Relative Standard Error:	15.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.165874	10.0	1726250.0	0.82937	Y
2	IC 410-274212/17	0.5	0.511762	10.0	1739265.0	1.023524	Y
3	IC 410-274212/16	1.0	1.024325	10.0	1797925.0	1.024325	Y
4	IC 410-274212/15	2.0	2.352878	10.0	1818084.0	1.176439	Y
5	IC 410-274212/14	5.0	6.176078	10.0	1851570.0	1.235216	Y
6	ICIS 410-274212/13	10.0	12.722603	10.0	1868480.0	1.27226	Y
7	IC 410-274212/12	25.0	32.016498	10.0	1873912.0	1.28066	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

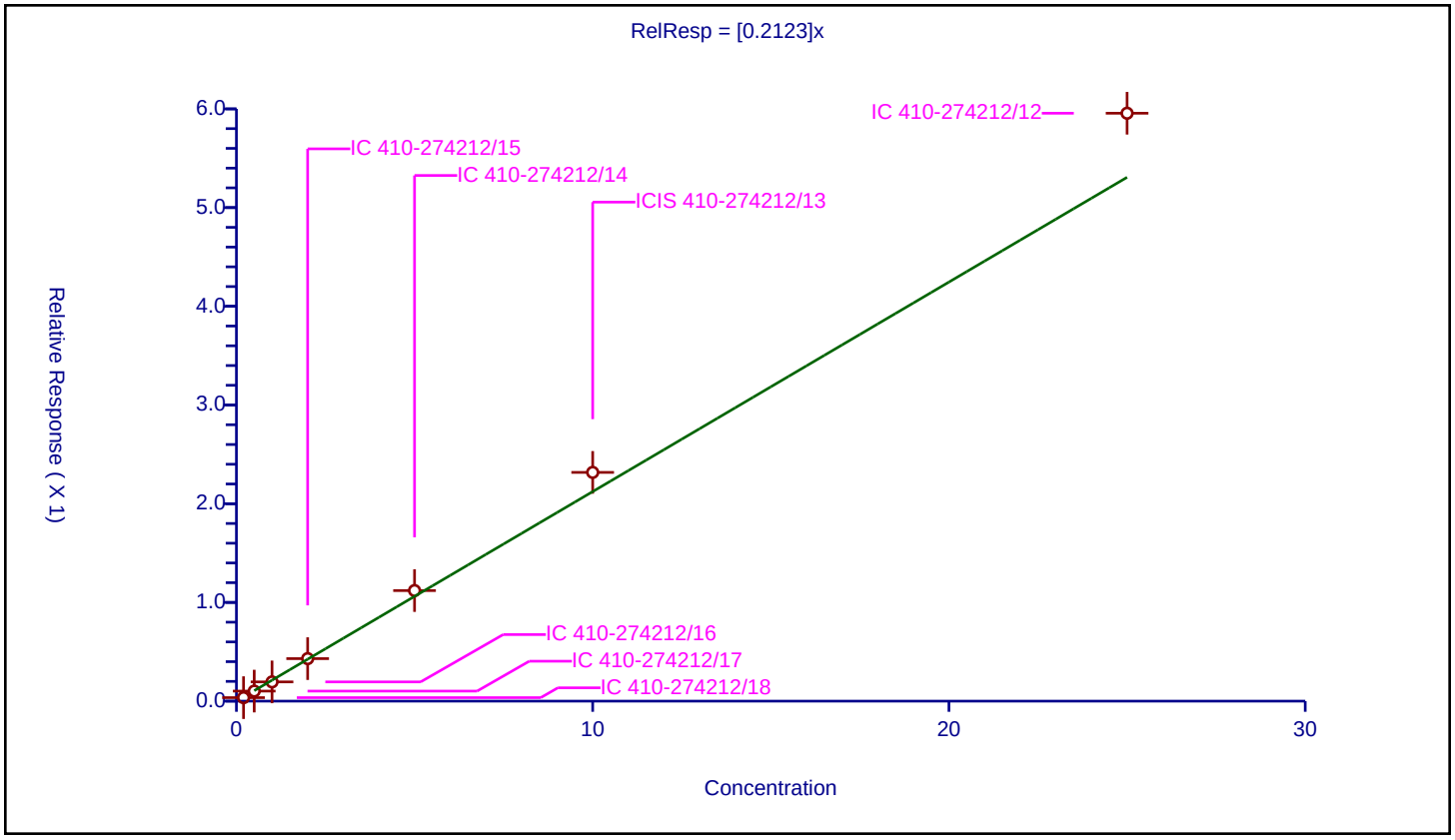
Curve Coefficients

Intercept:	0
Slope:	0.2123

Error Coefficients

Standard Error:	497000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.035574	10.0	1726250.0	0.177871	Y
2	IC 410-274212/17	0.5	0.101899	10.0	1739265.0	0.203799	Y
3	IC 410-274212/16	1.0	0.194964	10.0	1797925.0	0.194964	Y
4	IC 410-274212/15	2.0	0.430646	10.0	1818084.0	0.215323	Y
5	IC 410-274212/14	5.0	1.120206	10.0	1851570.0	0.224041	Y
6	ICIS 410-274212/13	10.0	2.317349	10.0	1868480.0	0.231735	Y
7	IC 410-274212/12	25.0	5.955989	10.0	1873912.0	0.23824	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

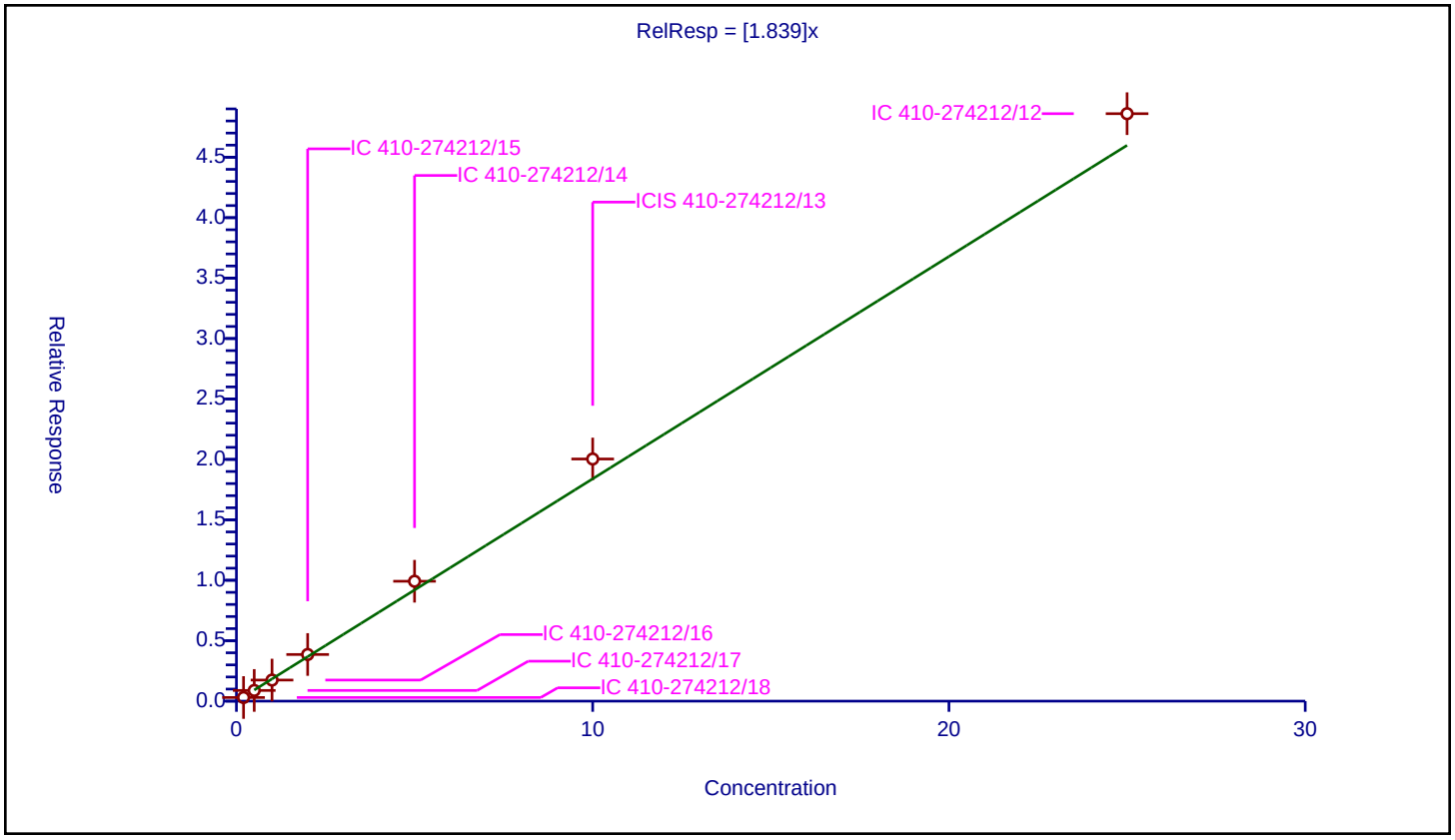
Curve Coefficients

Intercept:	0
Slope:	1.839

Error Coefficients

Standard Error:	4100000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.300437	10.0	1726250.0	1.502187	Y
2	IC 410-274212/17	0.5	0.883902	10.0	1739265.0	1.767804	Y
3	IC 410-274212/16	1.0	1.745117	10.0	1797925.0	1.745117	Y
4	IC 410-274212/15	2.0	3.859129	10.0	1818084.0	1.929564	Y
5	IC 410-274212/14	5.0	9.919447	10.0	1851570.0	1.983889	Y
6	ICIS 410-274212/13	10.0	20.033236	10.0	1868480.0	2.003324	Y
7	IC 410-274212/12	25.0	48.602437	10.0	1873912.0	1.944097	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

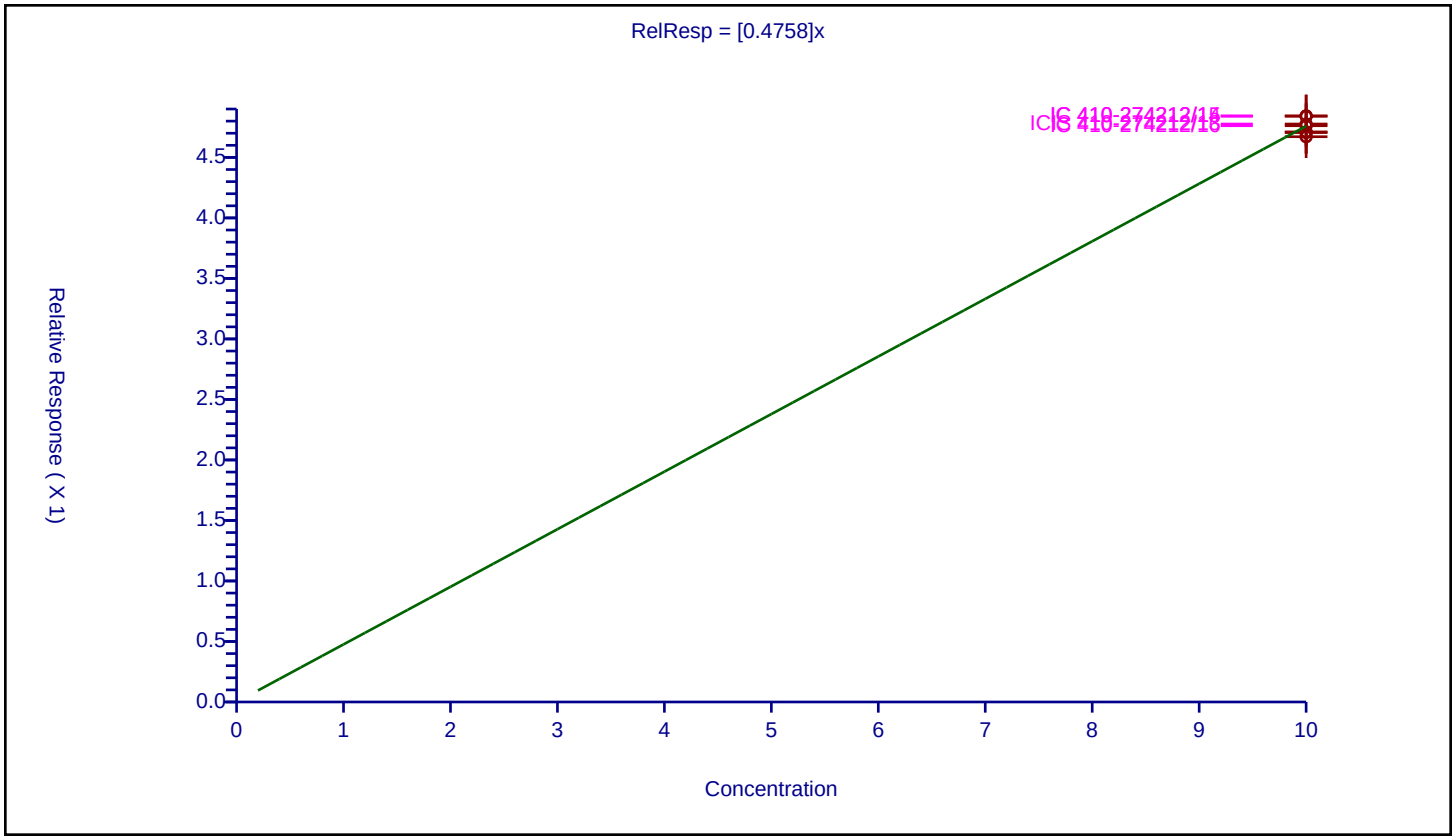
Curve Coefficients

Intercept:	0
Slope:	0.4758

Error Coefficients

Standard Error:	932000
Relative Standard Error:	1.4
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/12	10.0	4.705434	10.0	1873912.0	0.470543	Y
2	ICIS 410-274212/13	10.0	4.775978	10.0	1868480.0	0.477598	Y
3	IC 410-274212/14	10.0	4.843295	10.0	1851570.0	0.48433	Y
4	IC 410-274212/15	10.0	4.840183	10.0	1818084.0	0.484018	Y
5	IC 410-274212/16	10.0	4.761912	10.0	1797925.0	0.476191	Y
6	IC 410-274212/17	10.0	4.71084	10.0	1739265.0	0.471084	Y
7	IC 410-274212/18	10.0	4.671085	10.0	1726250.0	0.467108	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

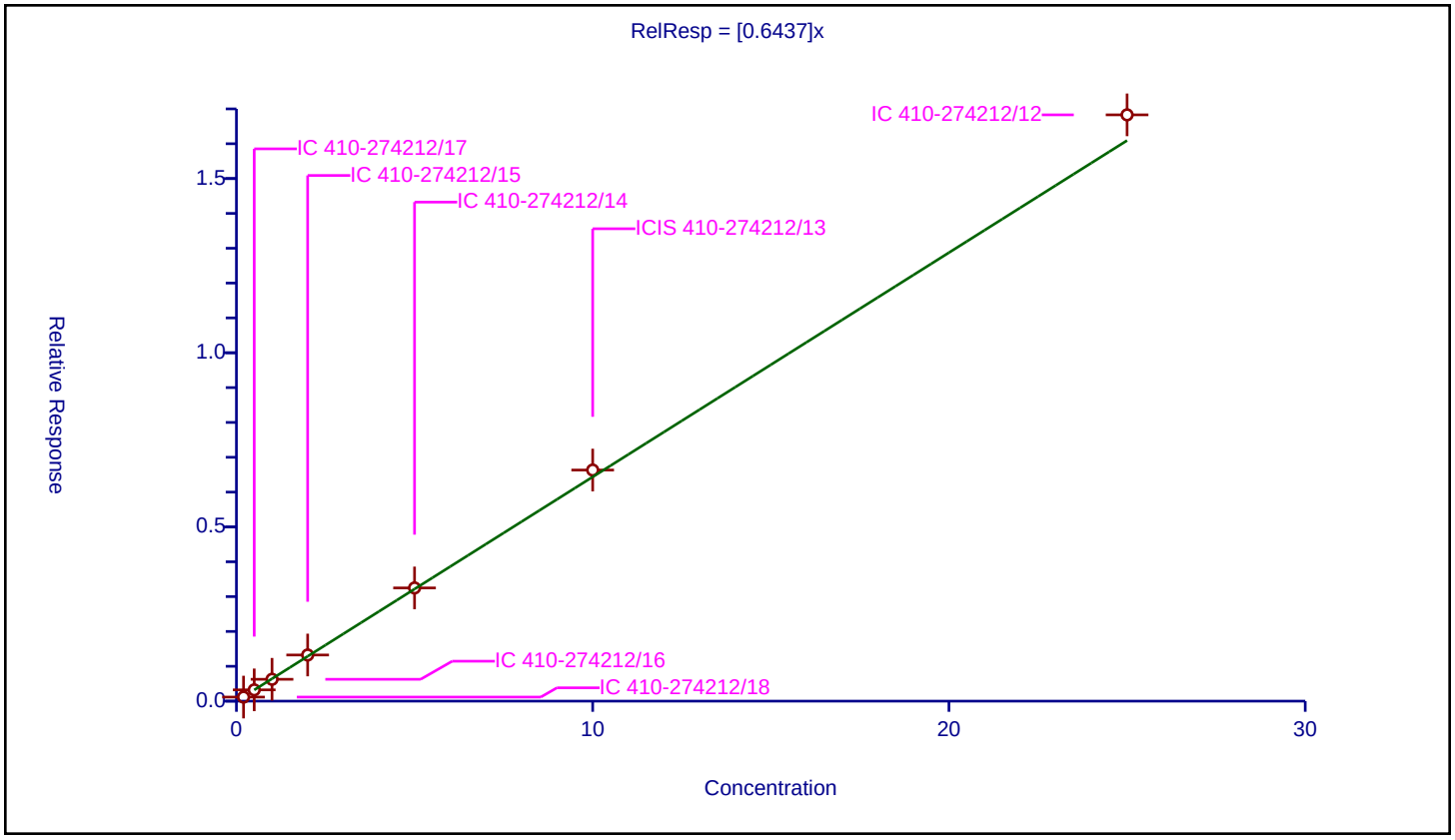
Curve Coefficients

Intercept:	0
Slope:	0.6437

Error Coefficients

Standard Error:	776000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.116449	10.0	962398.0	0.582244	Y
2	IC 410-274212/17	0.5	0.323678	10.0	973807.0	0.647356	Y
3	IC 410-274212/16	1.0	0.627626	10.0	1008085.0	0.627626	Y
4	IC 410-274212/15	2.0	1.324785	10.0	1025087.0	0.662393	Y
5	IC 410-274212/14	5.0	3.249227	10.0	1050302.0	0.649845	Y
6	ICIS 410-274212/13	10.0	6.633176	10.0	1053034.0	0.663318	Y
7	IC 410-274212/12	25.0	16.828967	10.0	1027356.0	0.673159	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

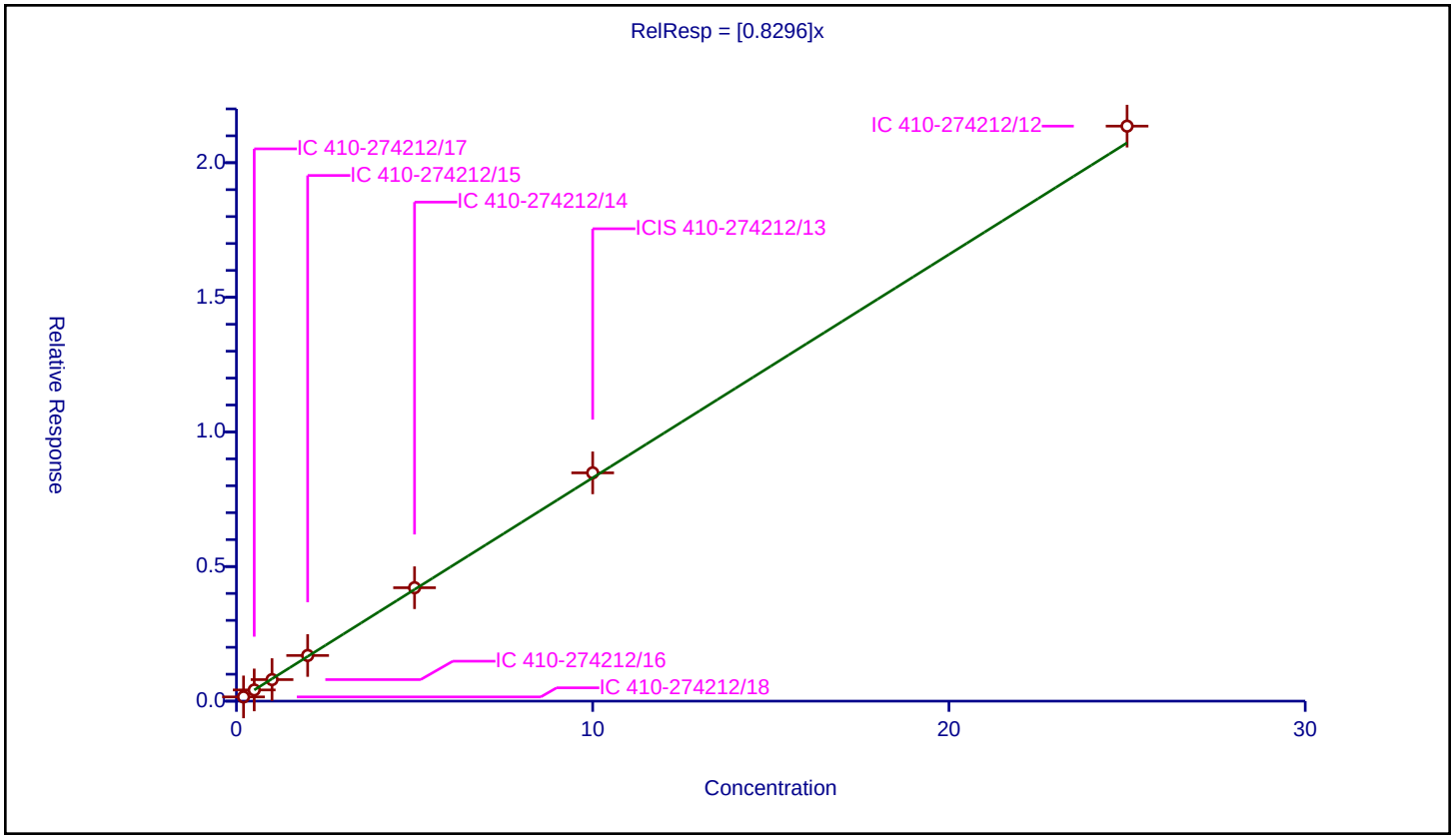
Curve Coefficients

Intercept:	0
Slope:	0.8296

Error Coefficients

Standard Error:	987000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.156546	10.0	962398.0	0.782732	Y
2	IC 410-274212/17	0.5	0.415873	10.0	973807.0	0.831746	Y
3	IC 410-274212/16	1.0	0.799704	10.0	1008085.0	0.799704	Y
4	IC 410-274212/15	2.0	1.695788	10.0	1025087.0	0.847894	Y
5	IC 410-274212/14	5.0	4.213645	10.0	1050302.0	0.842729	Y
6	ICIS 410-274212/13	10.0	8.480771	10.0	1053034.0	0.848077	Y
7	IC 410-274212/12	25.0	21.359753	10.0	1027356.0	0.85439	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

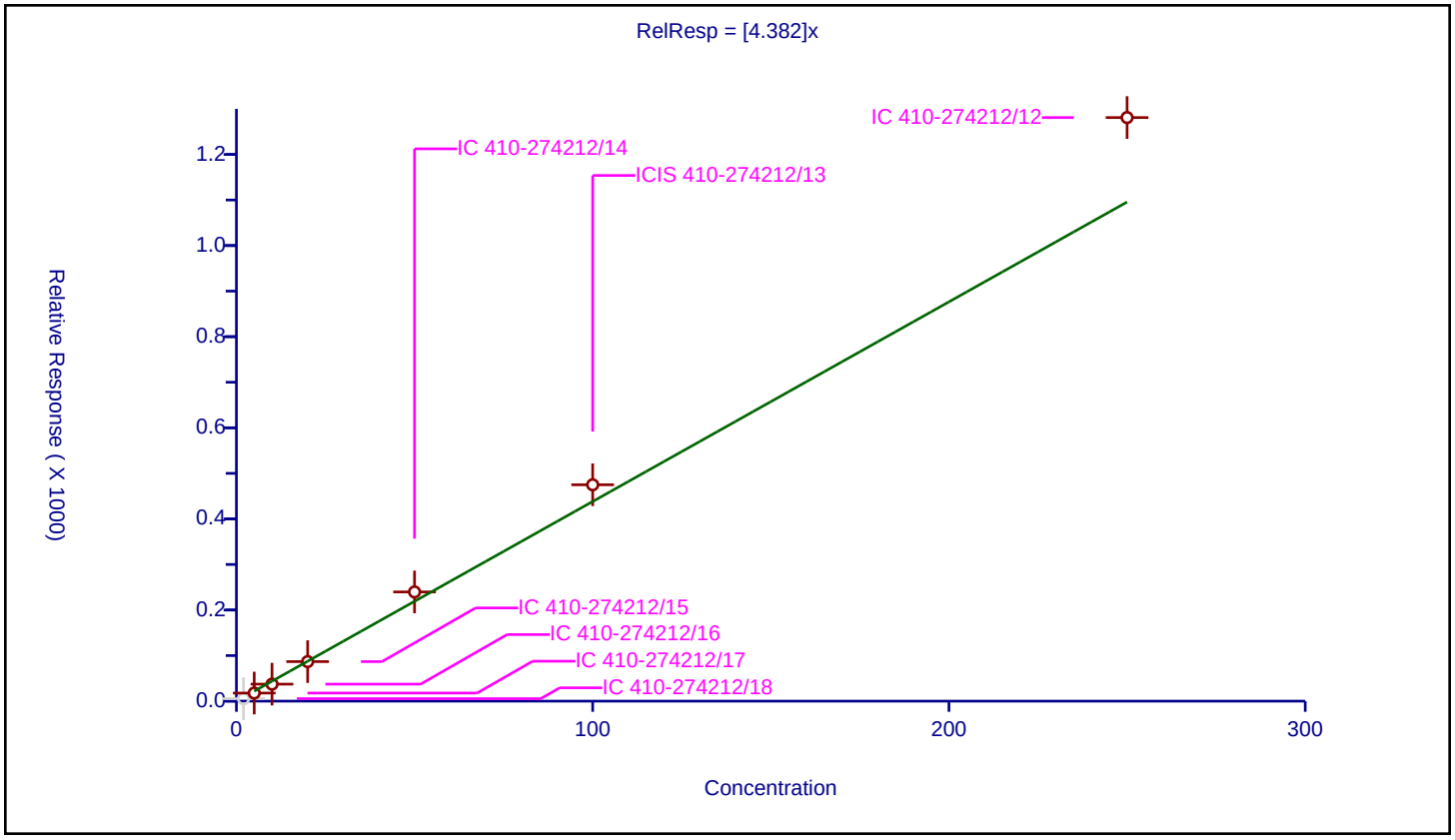
Curve Coefficients

Intercept:	0
Slope:	4.382

Error Coefficients

Standard Error:	2000000
Relative Standard Error:	14.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	2.0	5.411927	50.0	161218.0	2.705963	N
2	IC 410-274212/17	5.0	17.763925	50.0	156891.0	3.552785	Y
3	IC 410-274212/16	10.0	37.352091	50.0	155670.0	3.735209	Y
4	IC 410-274212/15	20.0	86.765057	50.0	167734.0	4.338253	Y
5	IC 410-274212/14	50.0	239.73031	50.0	157069.0	4.794606	Y
6	ICIS 410-274212/13	100.0	474.912537	50.0	169786.0	4.749125	Y
7	IC 410-274212/12	250.0	1280.925339	50.0	159455.0	5.123701	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

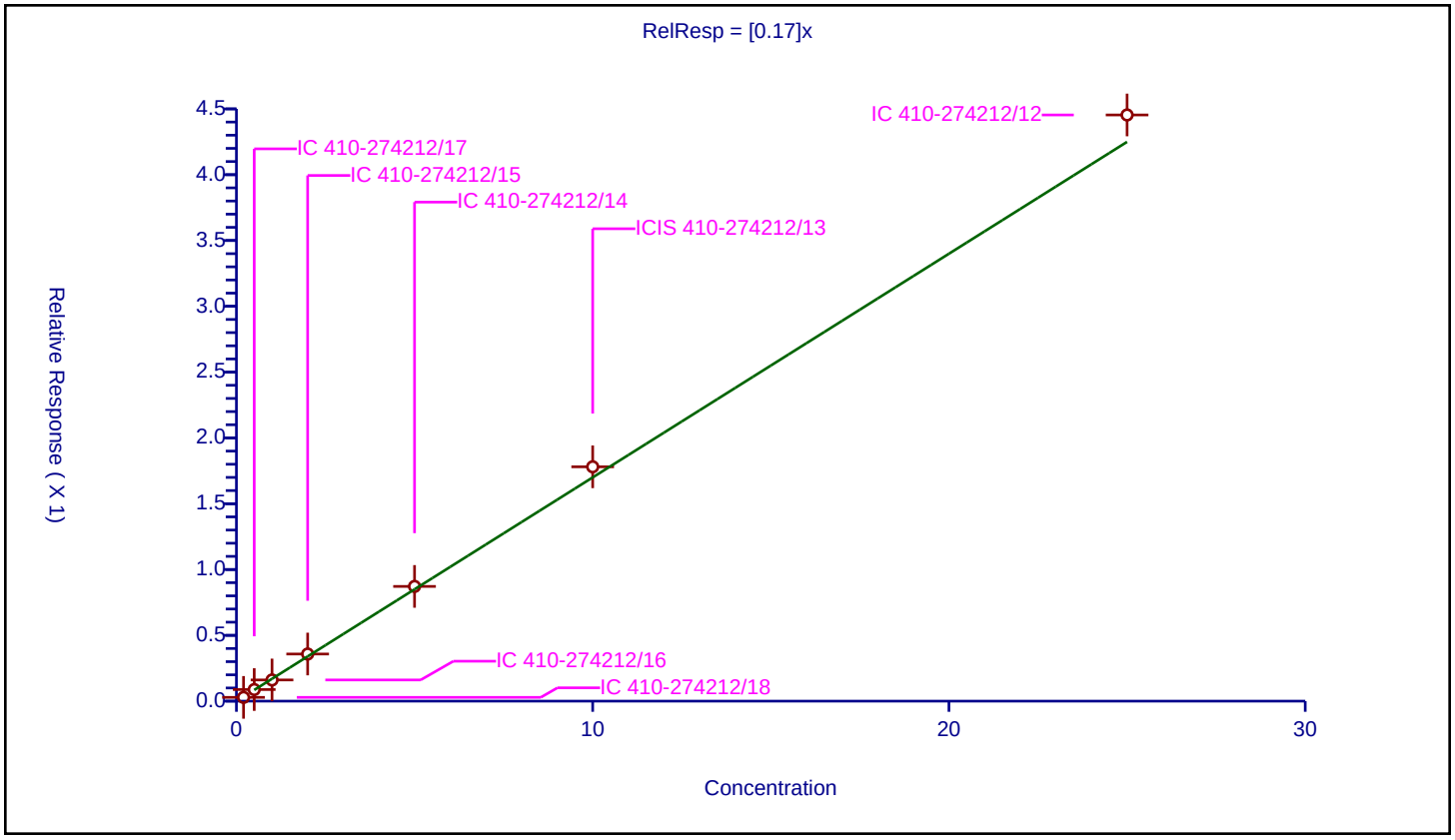
Curve Coefficients

Intercept:	0
Slope:	0.17

Error Coefficients

Standard Error:	206000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.028616	10.0	962398.0	0.14308	Y
2	IC 410-274212/17	0.5	0.088056	10.0	973807.0	0.176113	Y
3	IC 410-274212/16	1.0	0.160998	10.0	1008085.0	0.160998	Y
4	IC 410-274212/15	2.0	0.358155	10.0	1025087.0	0.179077	Y
5	IC 410-274212/14	5.0	0.871787	10.0	1050302.0	0.174357	Y
6	ICIS 410-274212/13	10.0	1.780598	10.0	1053034.0	0.17806	Y
7	IC 410-274212/12	25.0	4.453919	10.0	1027356.0	0.178157	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

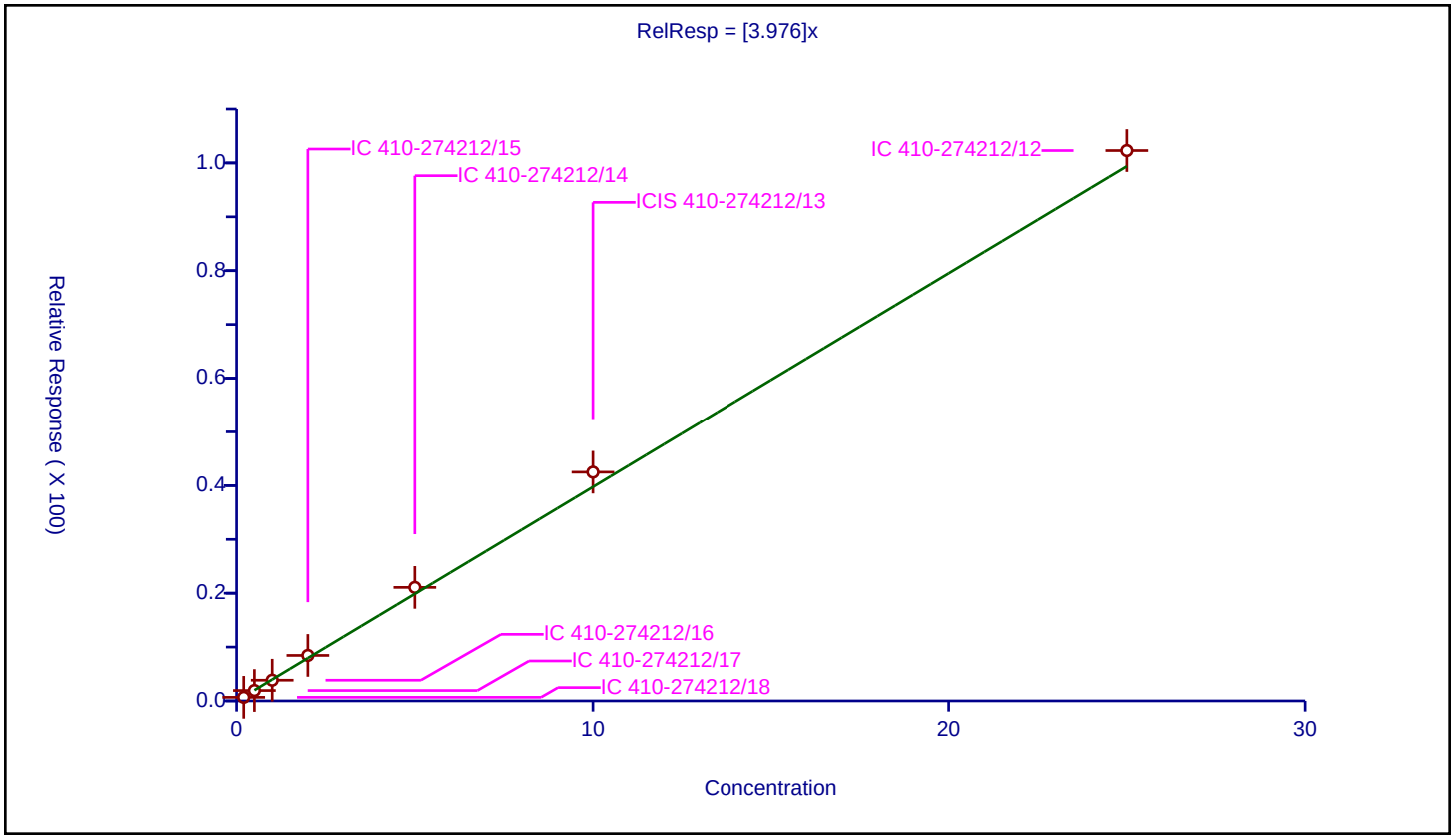
Curve Coefficients

Intercept:	0
Slope:	3.976

Error Coefficients

Standard Error:	4770000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.668788	10.0	962398.0	3.343939	Y
2	IC 410-274212/17	0.5	1.929376	10.0	973807.0	3.858752	Y
3	IC 410-274212/16	1.0	3.84421	10.0	1008085.0	3.84421	Y
4	IC 410-274212/15	2.0	8.448932	10.0	1025087.0	4.224466	Y
5	IC 410-274212/14	5.0	21.07869	10.0	1050302.0	4.215738	Y
6	ICIS 410-274212/13	10.0	42.501467	10.0	1053034.0	4.250147	Y
7	IC 410-274212/12	25.0	102.302493	10.0	1027356.0	4.0921	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

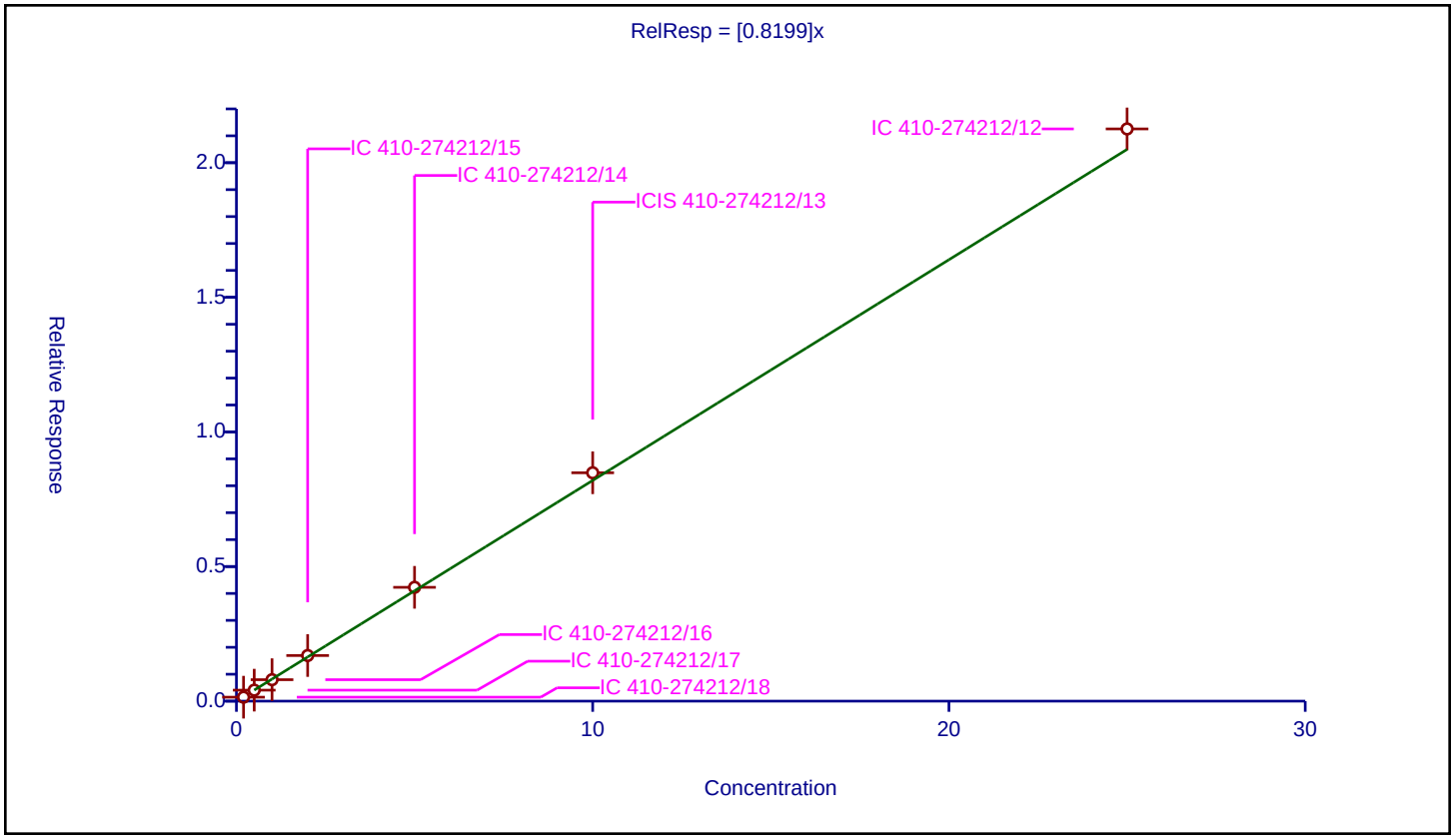
Curve Coefficients

Intercept:	0
Slope:	0.8199

Error Coefficients

Standard Error:	983000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.146883	10.0	962398.0	0.734415	Y
2	IC 410-274212/17	0.5	0.408161	10.0	973807.0	0.816322	Y
3	IC 410-274212/16	1.0	0.797016	10.0	1008085.0	0.797016	Y
4	IC 410-274212/15	2.0	1.694256	10.0	1025087.0	0.847128	Y
5	IC 410-274212/14	5.0	4.228308	10.0	1050302.0	0.845662	Y
6	ICIS 410-274212/13	10.0	8.482822	10.0	1053034.0	0.848282	Y
7	IC 410-274212/12	25.0	21.25566	10.0	1027356.0	0.850226	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

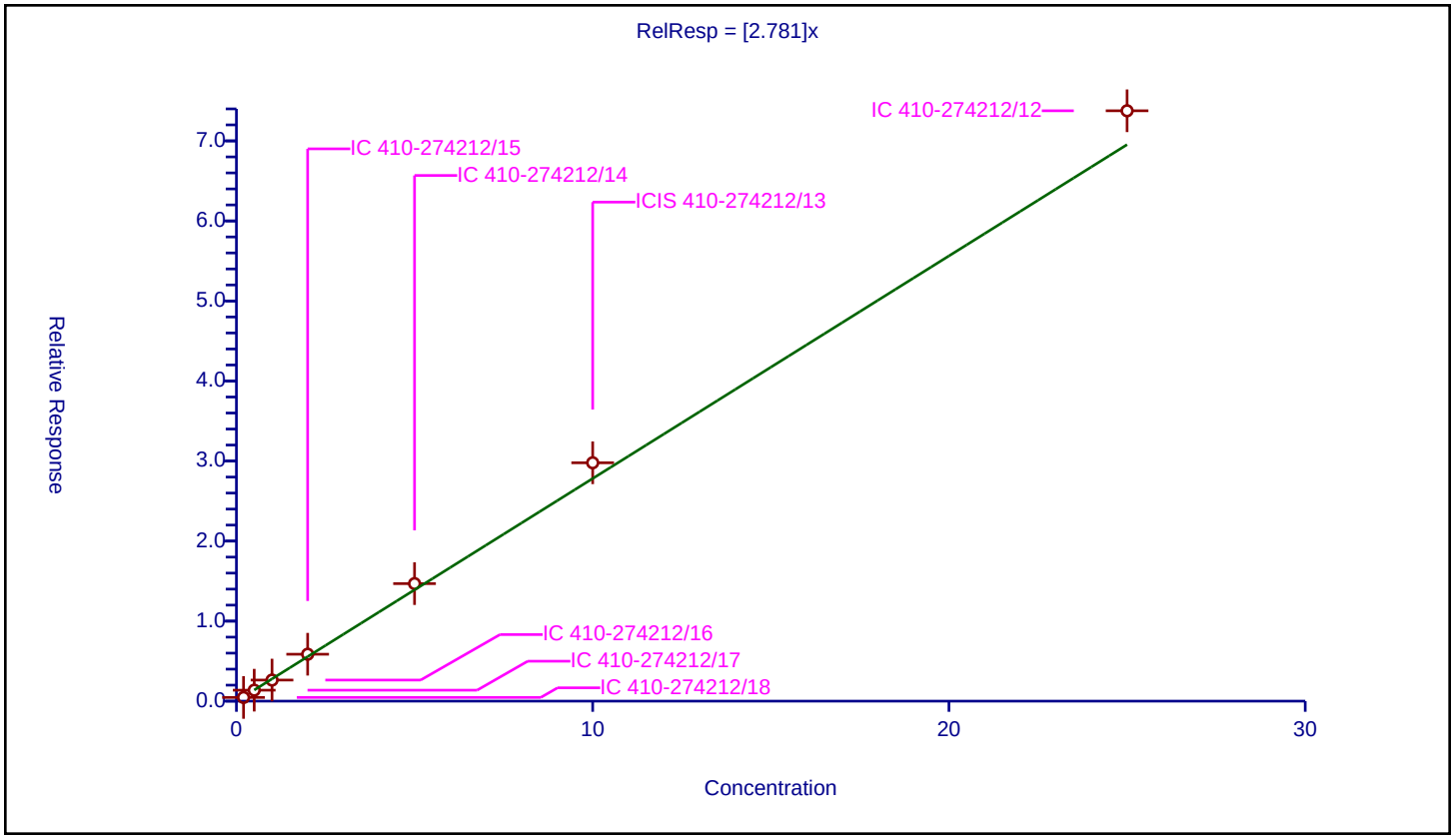
Curve Coefficients

Intercept:	0
Slope:	2.781

Error Coefficients

Standard Error:	3420000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.460724	10.0	962398.0	2.303621	Y
2	IC 410-274212/17	0.5	1.36793	10.0	973807.0	2.73586	Y
3	IC 410-274212/16	1.0	2.63332	10.0	1008085.0	2.63332	Y
4	IC 410-274212/15	2.0	5.863454	10.0	1025087.0	2.931727	Y
5	IC 410-274212/14	5.0	14.683567	10.0	1050302.0	2.936713	Y
6	ICIS 410-274212/13	10.0	29.782885	10.0	1053034.0	2.978288	Y
7	IC 410-274212/12	25.0	73.762425	10.0	1027356.0	2.950497	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

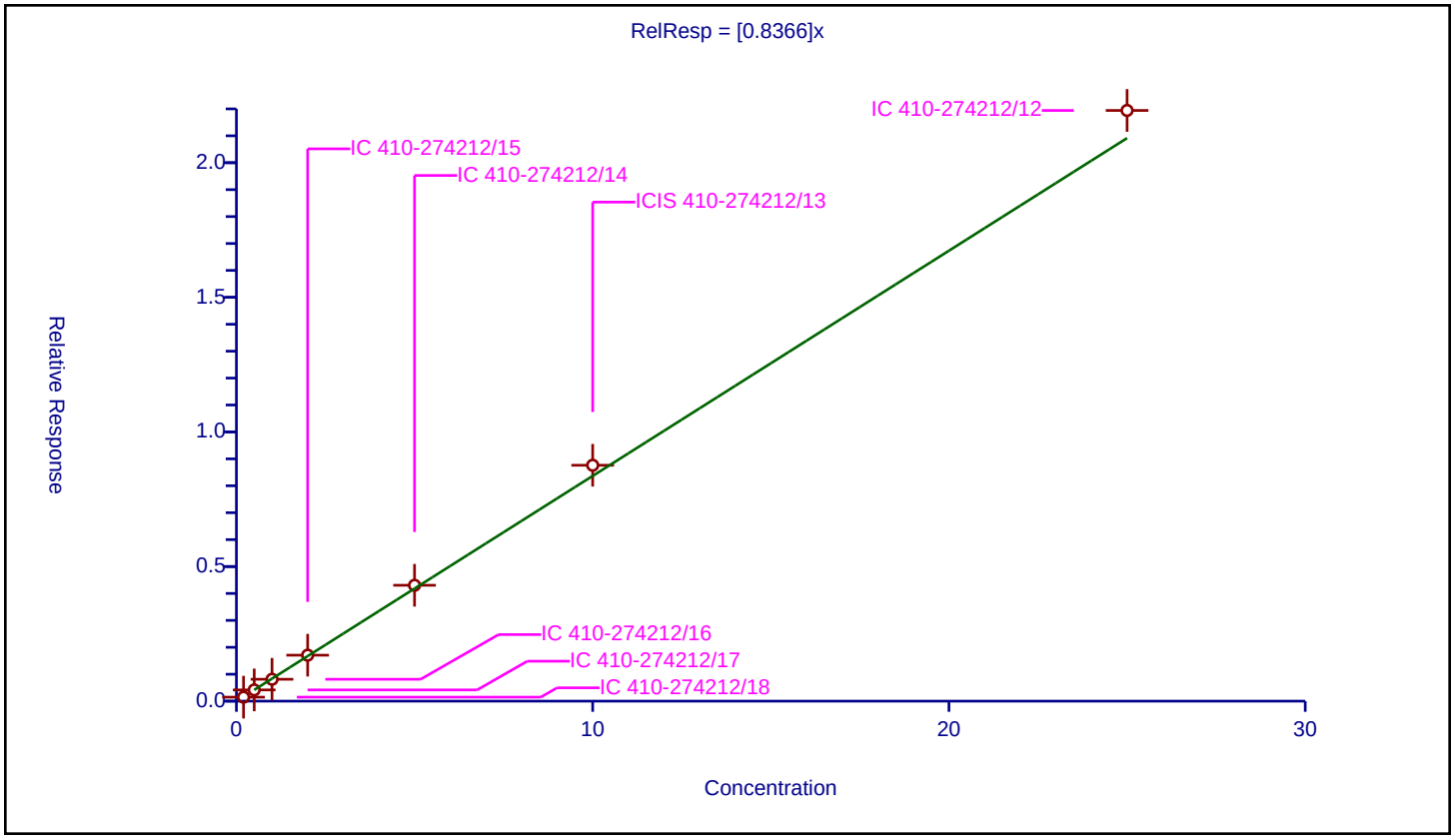
Curve Coefficients

Intercept:	0
Slope:	0.8366

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.148265	10.0	962398.0	0.741325	Y
2	IC 410-274212/17	0.5	0.416694	10.0	973807.0	0.833389	Y
3	IC 410-274212/16	1.0	0.812808	10.0	1008085.0	0.812808	Y
4	IC 410-274212/15	2.0	1.707582	10.0	1025087.0	0.853791	Y
5	IC 410-274212/14	5.0	4.3046	10.0	1050302.0	0.86092	Y
6	ICIS 410-274212/13	10.0	8.762547	10.0	1053034.0	0.876255	Y
7	IC 410-274212/12	25.0	21.941751	10.0	1027356.0	0.87767	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

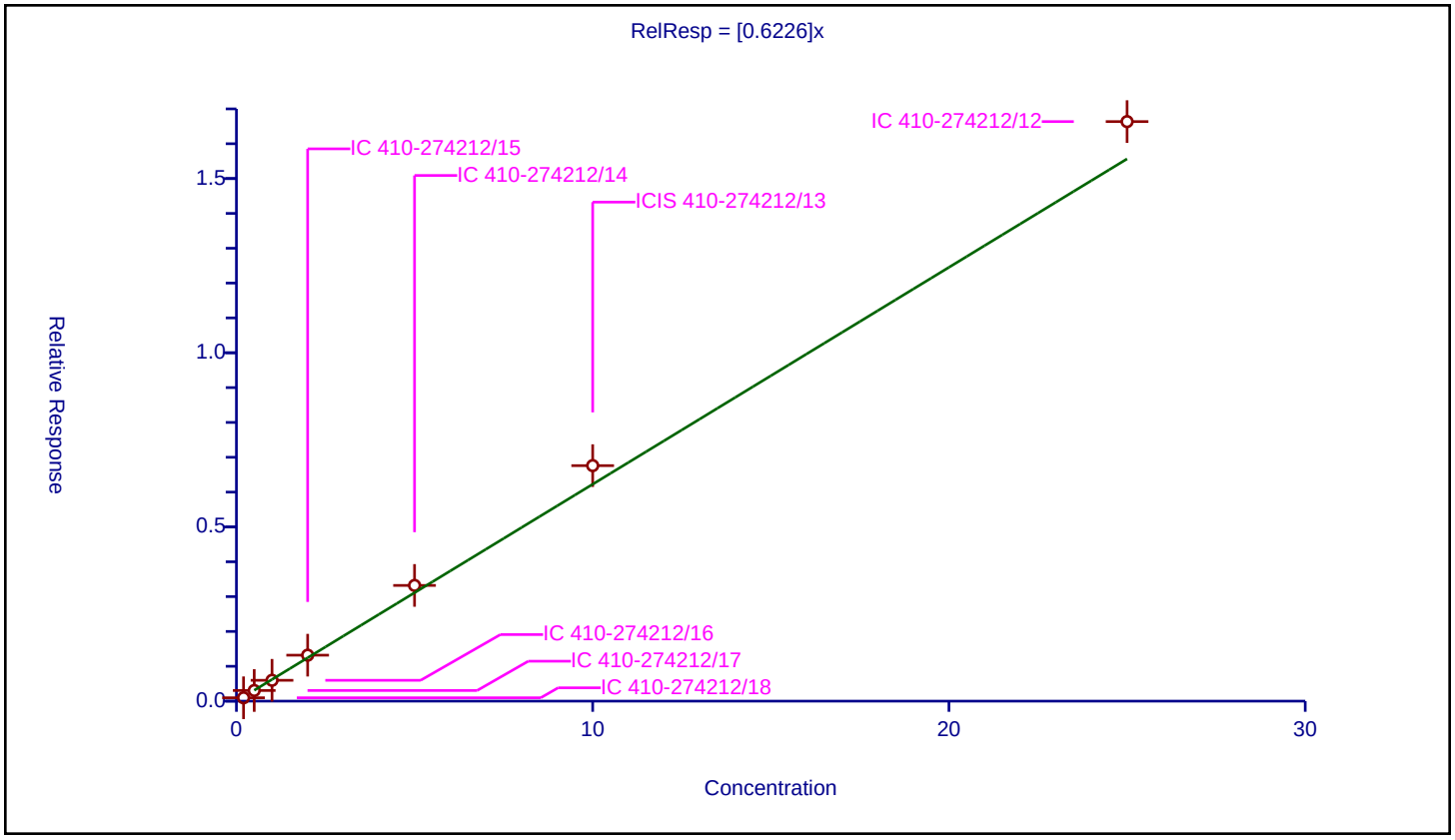
Curve Coefficients

Intercept:	0
Slope:	0.6226

Error Coefficients

Standard Error:	772000
Relative Standard Error:	10.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.096956	10.0	962398.0	0.484779	Y
2	IC 410-274212/17	0.5	0.305163	10.0	973807.0	0.610326	Y
3	IC 410-274212/16	1.0	0.597896	10.0	1008085.0	0.597896	Y
4	IC 410-274212/15	2.0	1.31899	10.0	1025087.0	0.659495	Y
5	IC 410-274212/14	5.0	3.32154	10.0	1050302.0	0.664308	Y
6	ICIS 410-274212/13	10.0	6.760162	10.0	1053034.0	0.676016	Y
7	IC 410-274212/12	25.0	16.635003	10.0	1027356.0	0.6654	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

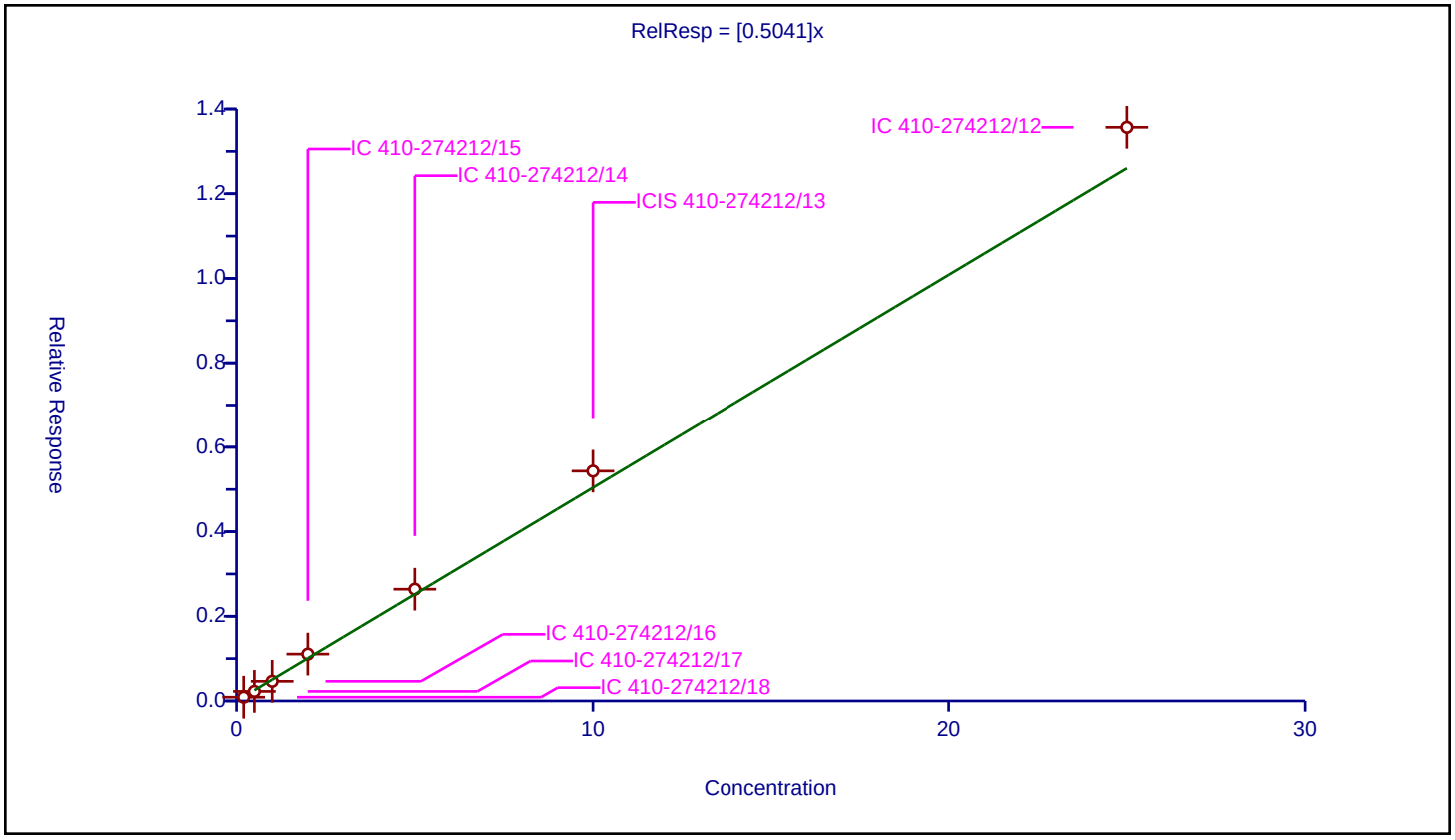
Curve Coefficients

Intercept:	0
Slope:	0.5041

Error Coefficients

Standard Error:	628000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.088955	10.0	962398.0	0.444774	Y
2	IC 410-274212/17	0.5	0.226164	10.0	973807.0	0.452328	Y
3	IC 410-274212/16	1.0	0.464514	10.0	1008085.0	0.464514	Y
4	IC 410-274212/15	2.0	1.106365	10.0	1025087.0	0.553182	Y
5	IC 410-274212/14	5.0	2.639574	10.0	1050302.0	0.527915	Y
6	ICIS 410-274212/13	10.0	5.434003	10.0	1053034.0	0.5434	Y
7	IC 410-274212/12	25.0	13.56815	10.0	1027356.0	0.542726	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

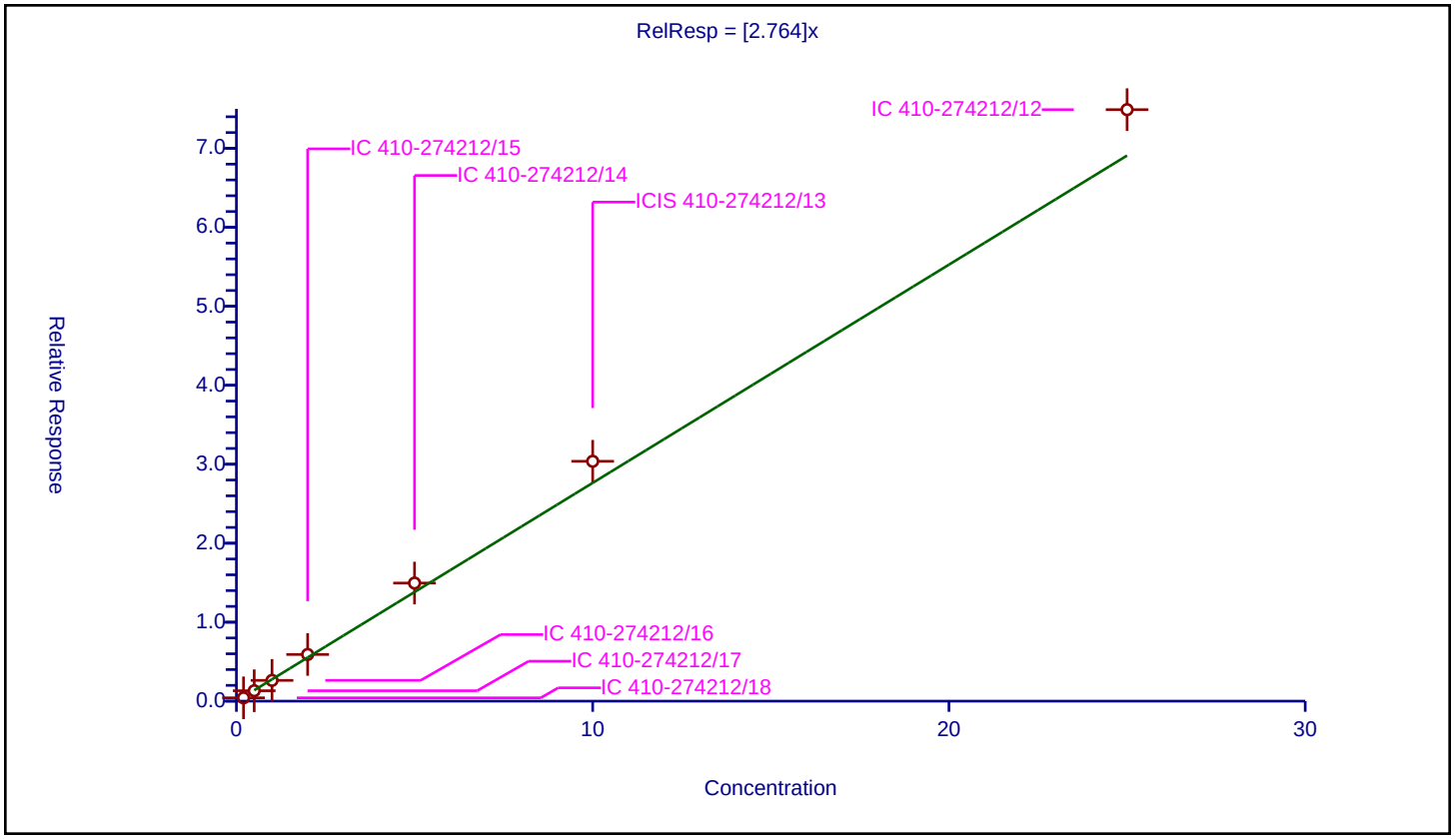
Curve Coefficients

Intercept:	0
Slope:	2.764

Error Coefficients

Standard Error:	3470000
Relative Standard Error:	12.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.420086	10.0	962398.0	2.10043	Y
2	IC 410-274212/17	0.5	1.318649	10.0	973807.0	2.637299	Y
3	IC 410-274212/16	1.0	2.628766	10.0	1008085.0	2.628766	Y
4	IC 410-274212/15	2.0	5.909274	10.0	1025087.0	2.954637	Y
5	IC 410-274212/14	5.0	14.954708	10.0	1050302.0	2.990942	Y
6	ICIS 410-274212/13	10.0	30.372486	10.0	1053034.0	3.037249	Y
7	IC 410-274212/12	25.0	74.901981	10.0	1027356.0	2.996079	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

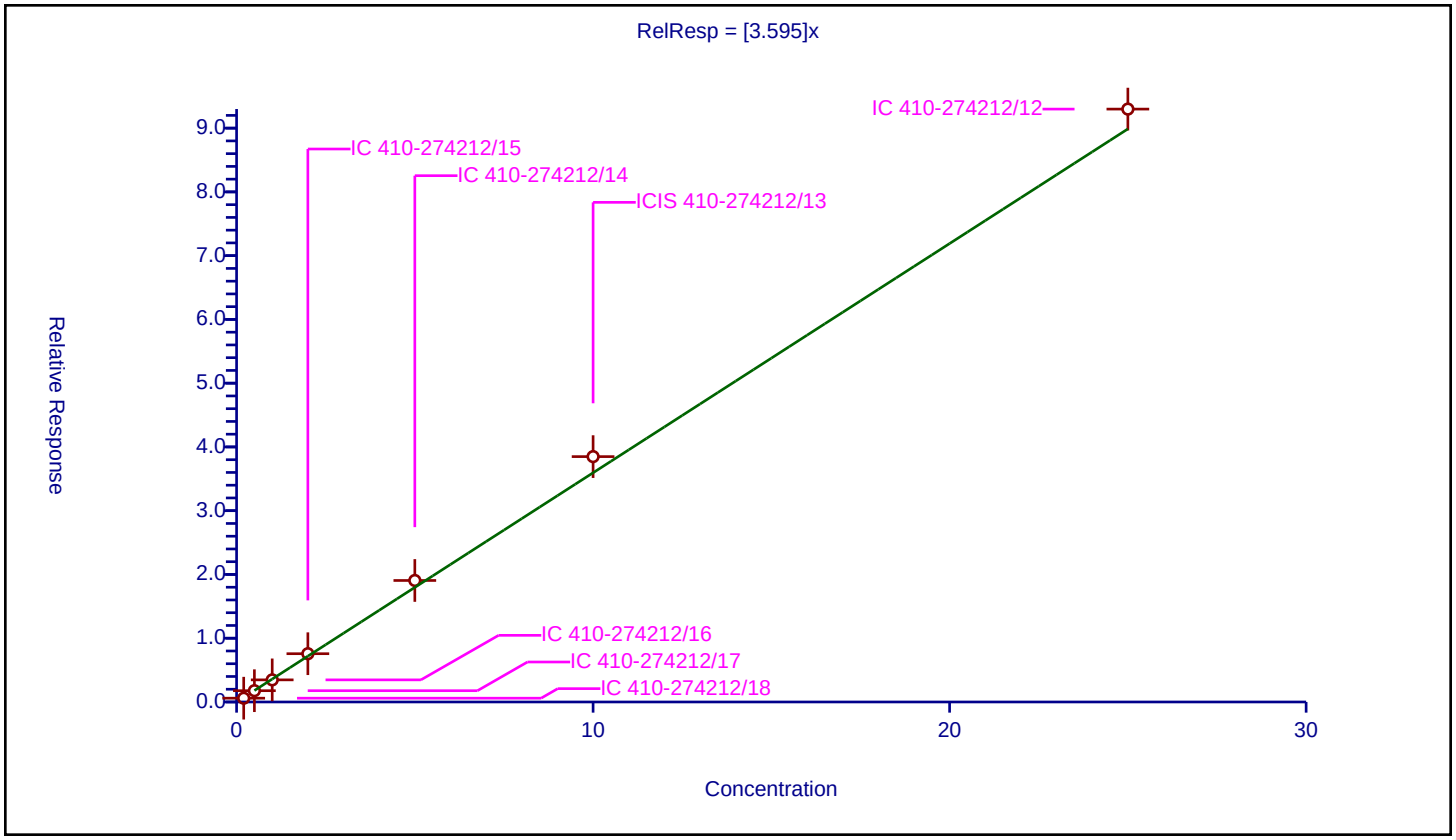
Curve Coefficients

Intercept:	0
Slope:	3.595

Error Coefficients

Standard Error:	4330000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.596884	10.0	962398.0	2.98442	Y
2	IC 410-274212/17	0.5	1.773257	10.0	973807.0	3.546514	Y
3	IC 410-274212/16	1.0	3.468001	10.0	1008085.0	3.468001	Y
4	IC 410-274212/15	2.0	7.573767	10.0	1025087.0	3.786883	Y
5	IC 410-274212/14	5.0	19.058109	10.0	1050302.0	3.811622	Y
6	ICIS 410-274212/13	10.0	38.483373	10.0	1053034.0	3.848337	Y
7	IC 410-274212/12	25.0	92.988175	10.0	1027356.0	3.719527	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

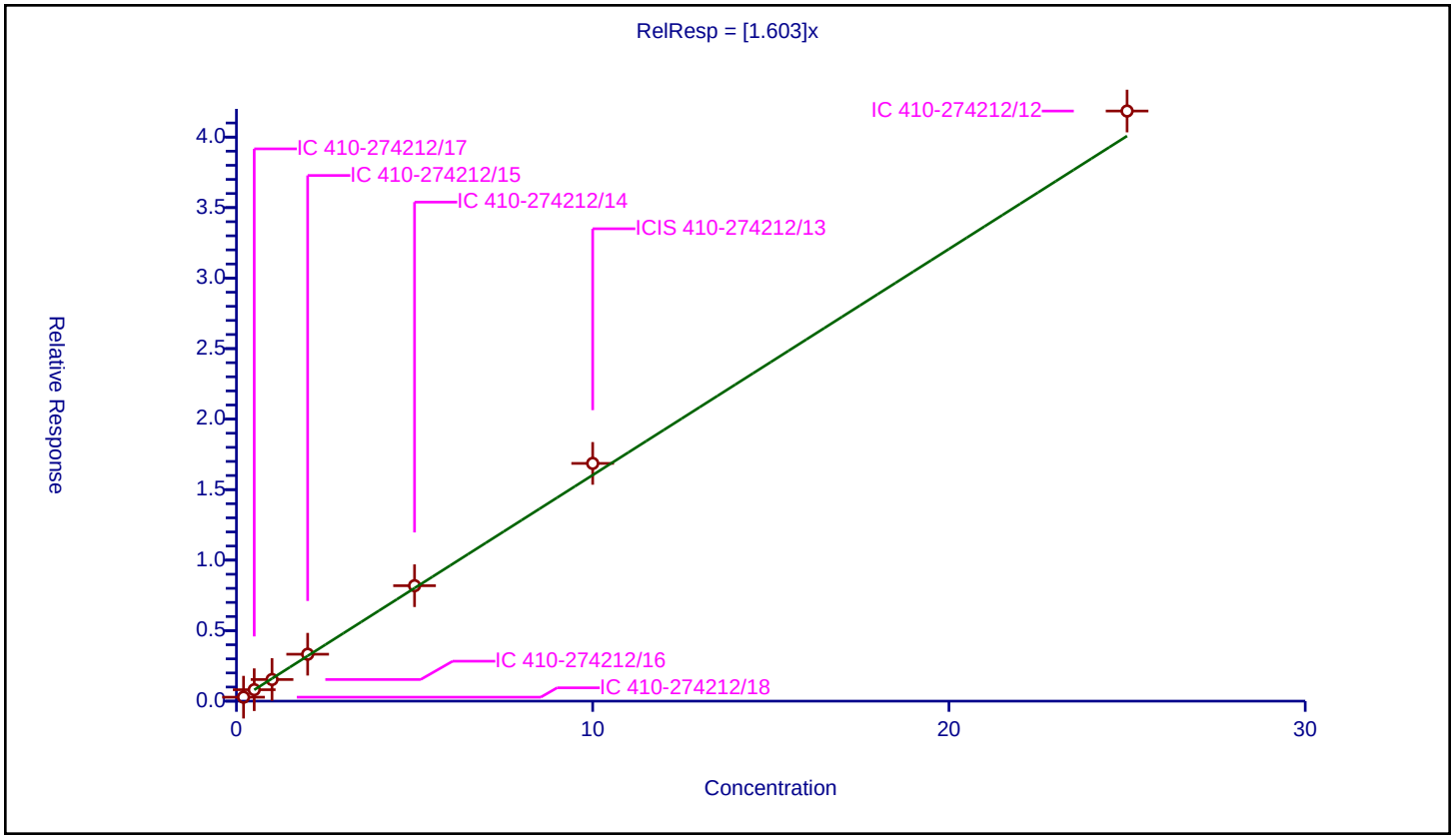
Curve Coefficients

Intercept:	0
Slope:	1.603

Error Coefficients

Standard Error:	1940000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.280965	10.0	962398.0	1.404824	Y
2	IC 410-274212/17	0.5	0.811578	10.0	973807.0	1.623155	Y
3	IC 410-274212/16	1.0	1.533442	10.0	1008085.0	1.533442	Y
4	IC 410-274212/15	2.0	3.327513	10.0	1025087.0	1.663756	Y
5	IC 410-274212/14	5.0	8.186598	10.0	1050302.0	1.63732	Y
6	ICIS 410-274212/13	10.0	16.859399	10.0	1053034.0	1.68594	Y
7	IC 410-274212/12	25.0	41.849067	10.0	1027356.0	1.673963	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

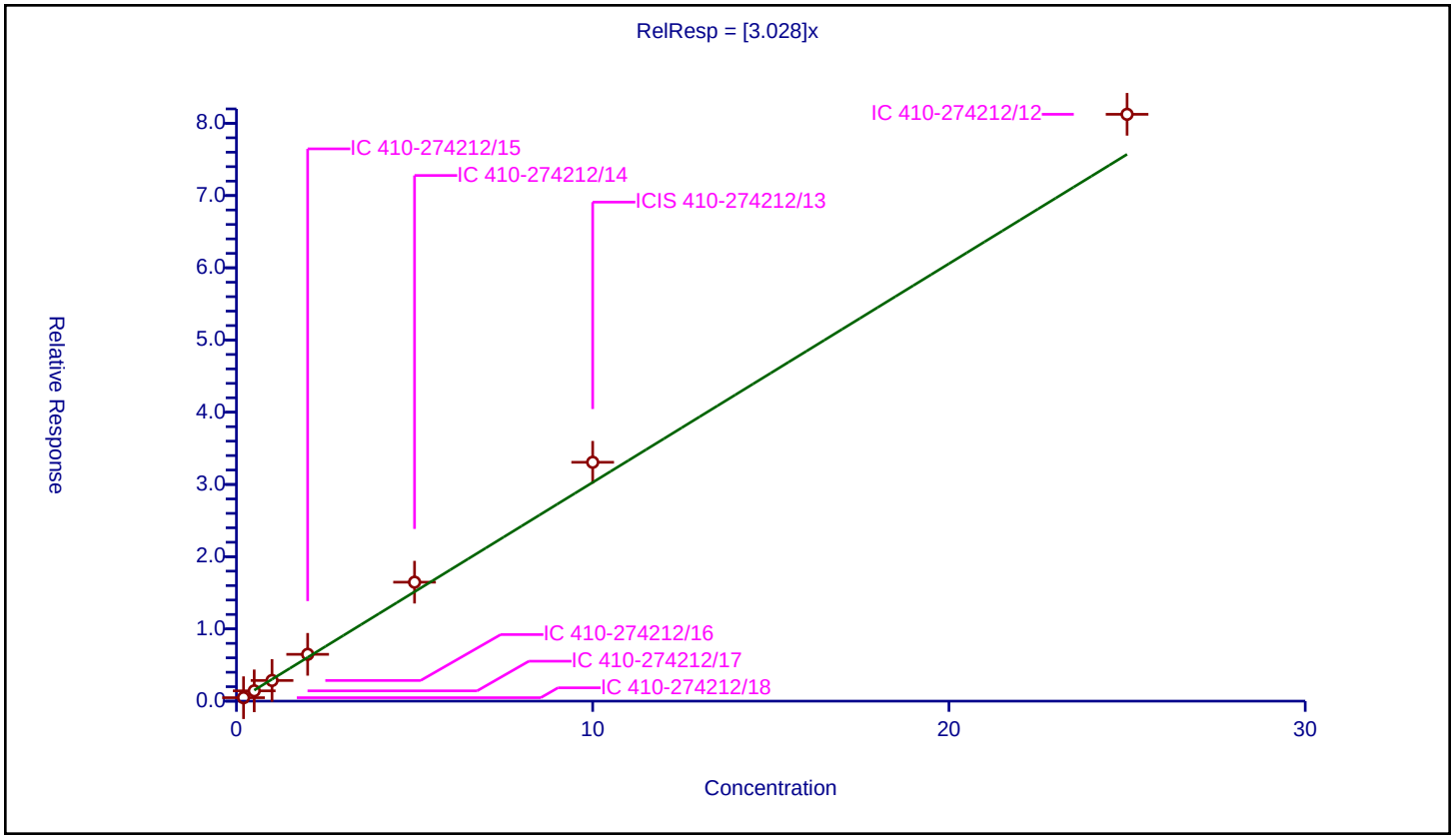
Curve Coefficients

Intercept:	0
Slope:	3.028

Error Coefficients

Standard Error:	3770000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.47869	10.0	962398.0	2.393448	Y
2	IC 410-274212/17	0.5	1.426812	10.0	973807.0	2.853625	Y
3	IC 410-274212/16	1.0	2.860443	10.0	1008085.0	2.860443	Y
4	IC 410-274212/15	2.0	6.480933	10.0	1025087.0	3.240466	Y
5	IC 410-274212/14	5.0	16.469644	10.0	1050302.0	3.293929	Y
6	ICIS 410-274212/13	10.0	33.072588	10.0	1053034.0	3.307259	Y
7	IC 410-274212/12	25.0	81.250822	10.0	1027356.0	3.250033	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

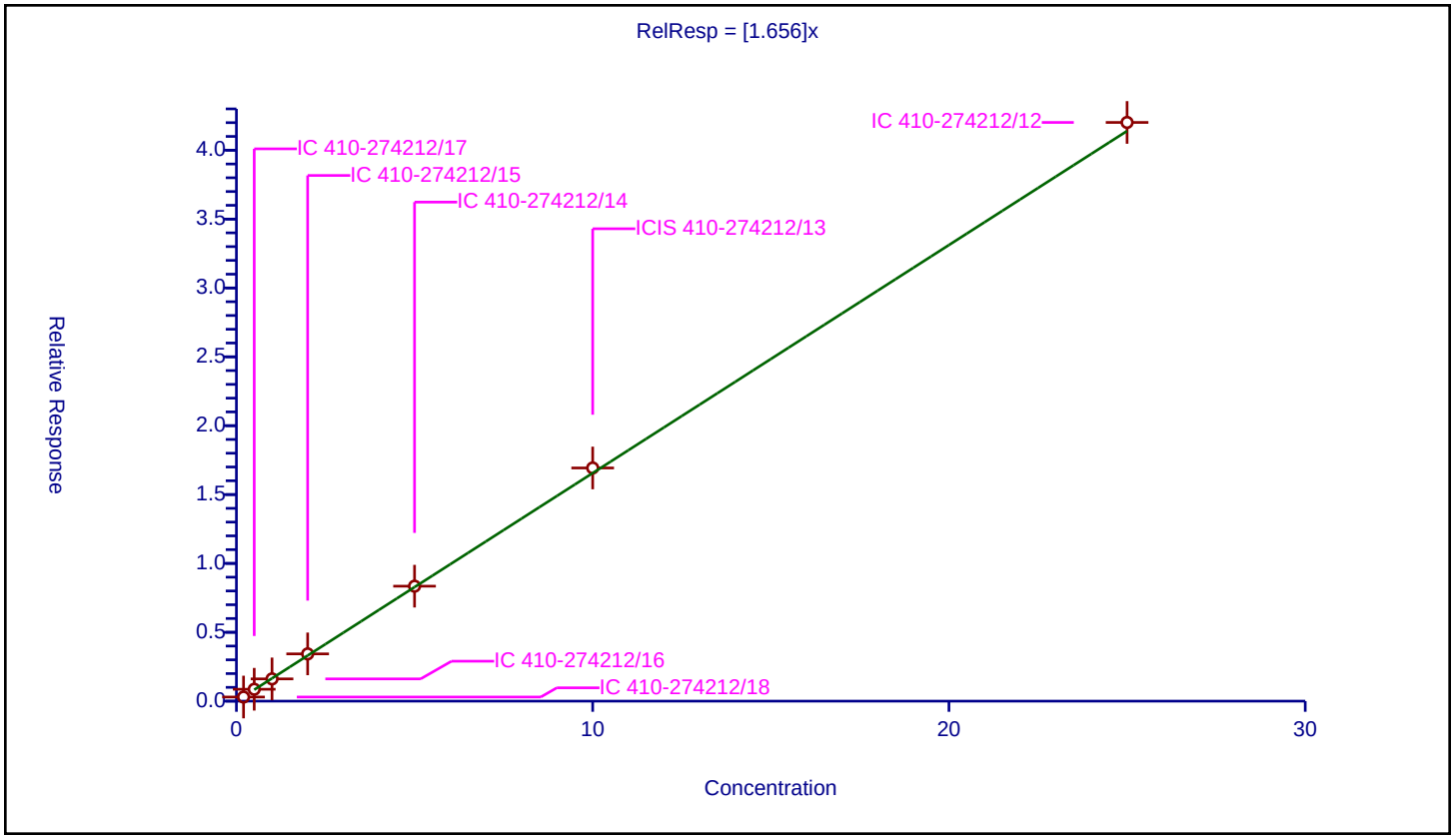
Curve Coefficients

Intercept:	0
Slope:	1.656

Error Coefficients

Standard Error:	1950000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.298047	10.0	962398.0	1.490236	Y
2	IC 410-274212/17	0.5	0.862881	10.0	973807.0	1.725763	Y
3	IC 410-274212/16	1.0	1.616263	10.0	1008085.0	1.616263	Y
4	IC 410-274212/15	2.0	3.431436	10.0	1025087.0	1.715718	Y
5	IC 410-274212/14	5.0	8.346647	10.0	1050302.0	1.669329	Y
6	ICIS 410-274212/13	10.0	16.929311	10.0	1053034.0	1.692931	Y
7	IC 410-274212/12	25.0	42.015504	10.0	1027356.0	1.68062	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

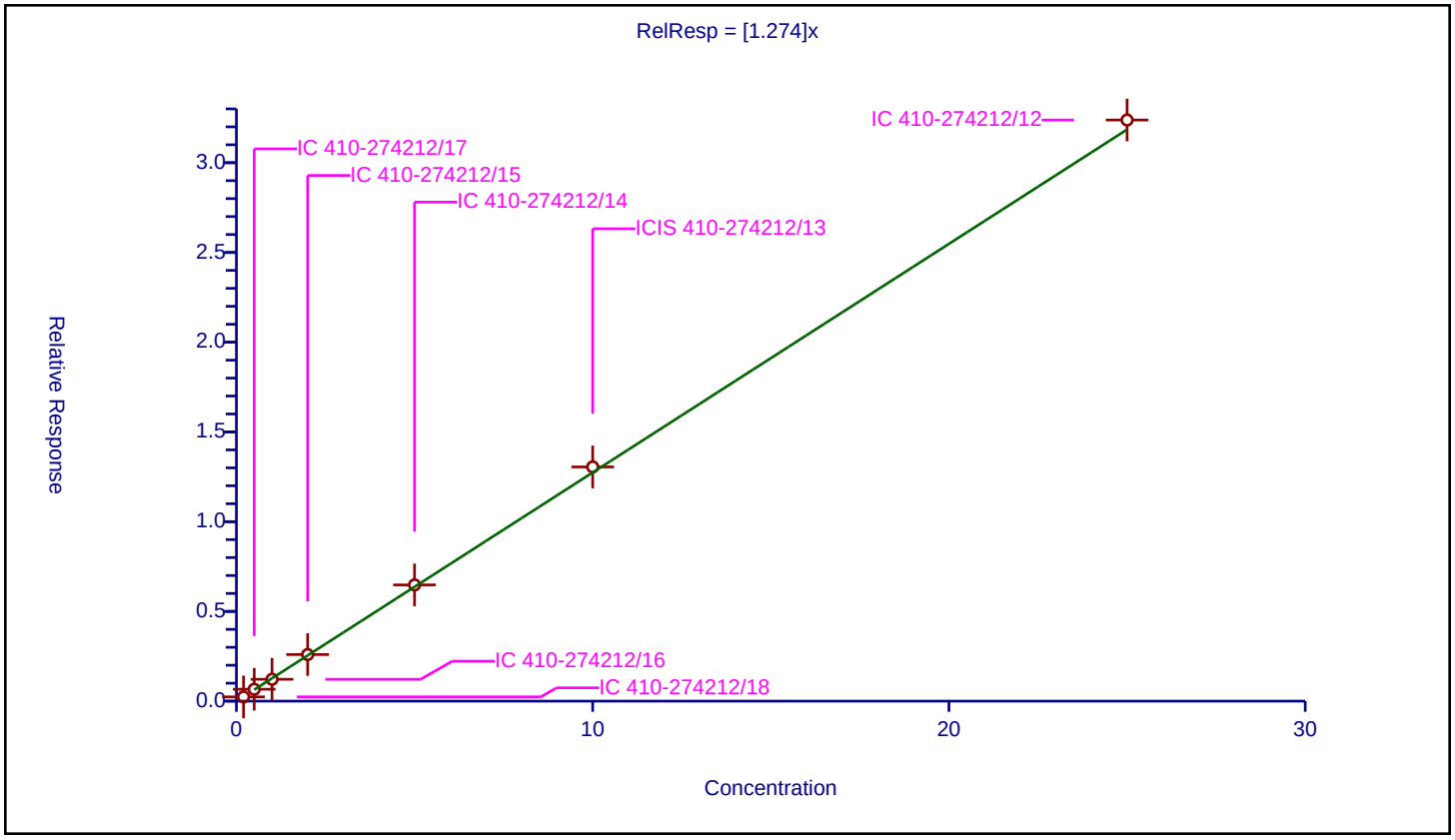
Curve Coefficients

Intercept:	0
Slope:	1.274

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.236409	10.0	962398.0	1.182047	Y
2	IC 410-274212/17	0.5	0.662472	10.0	973807.0	1.324944	Y
3	IC 410-274212/16	1.0	1.217437	10.0	1008085.0	1.217437	Y
4	IC 410-274212/15	2.0	2.596219	10.0	1025087.0	1.298109	Y
5	IC 410-274212/14	5.0	6.476099	10.0	1050302.0	1.29522	Y
6	ICIS 410-274212/13	10.0	13.049294	10.0	1053034.0	1.304929	Y
7	IC 410-274212/12	25.0	32.379049	10.0	1027356.0	1.295162	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

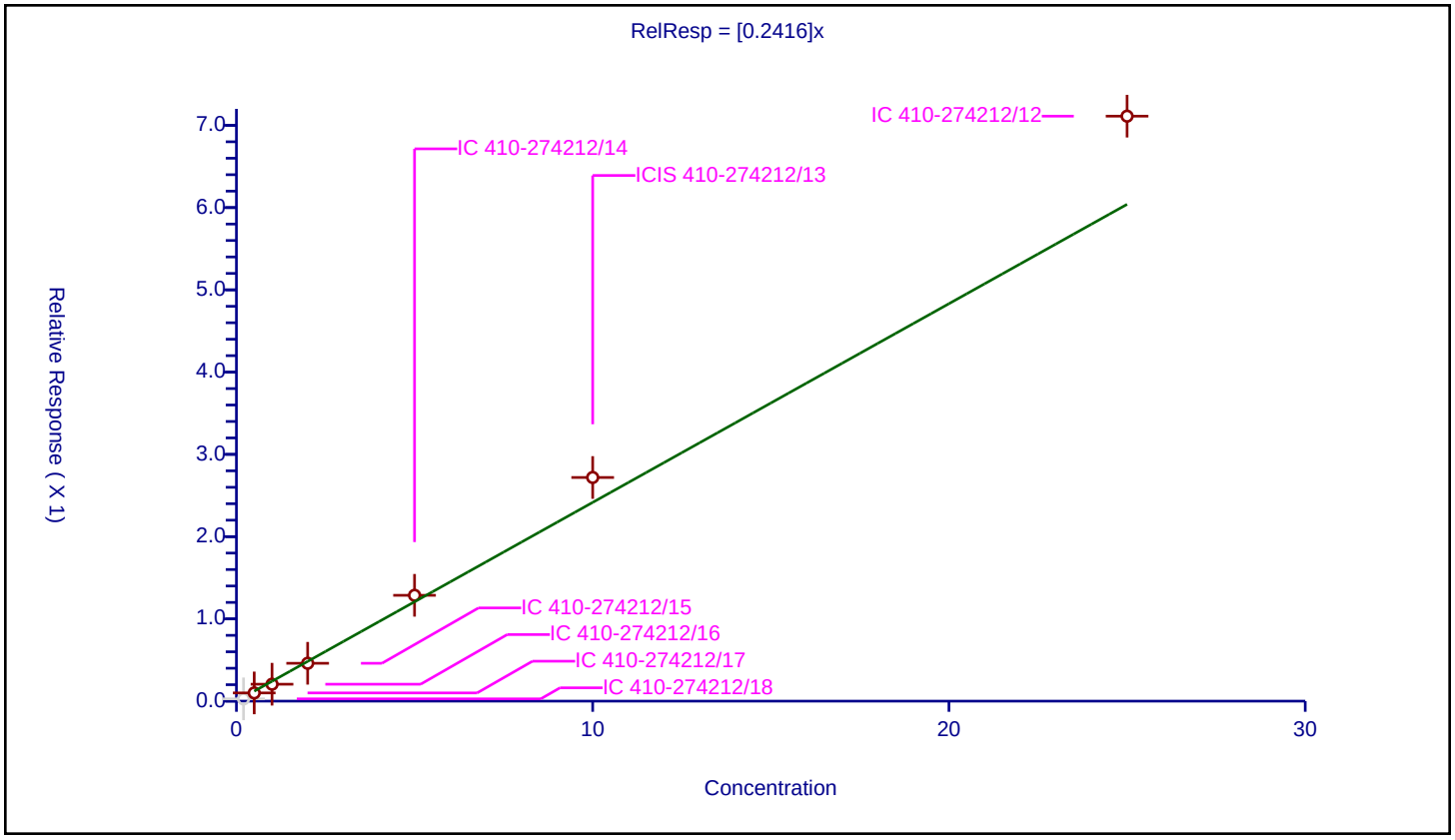
Curve Coefficients

Intercept:	0
Slope:	0.2416

Error Coefficients

Standard Error:	357000
Relative Standard Error:	14.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.027587	10.0	962398.0	0.137937	N
2	IC 410-274212/17	0.5	0.099917	10.0	973807.0	0.199834	Y
3	IC 410-274212/16	1.0	0.205856	10.0	1008085.0	0.205856	Y
4	IC 410-274212/15	2.0	0.460371	10.0	1025087.0	0.230185	Y
5	IC 410-274212/14	5.0	1.286659	10.0	1050302.0	0.257332	Y
6	ICIS 410-274212/13	10.0	2.718963	10.0	1053034.0	0.271896	Y
7	IC 410-274212/12	25.0	7.111585	10.0	1027356.0	0.284463	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

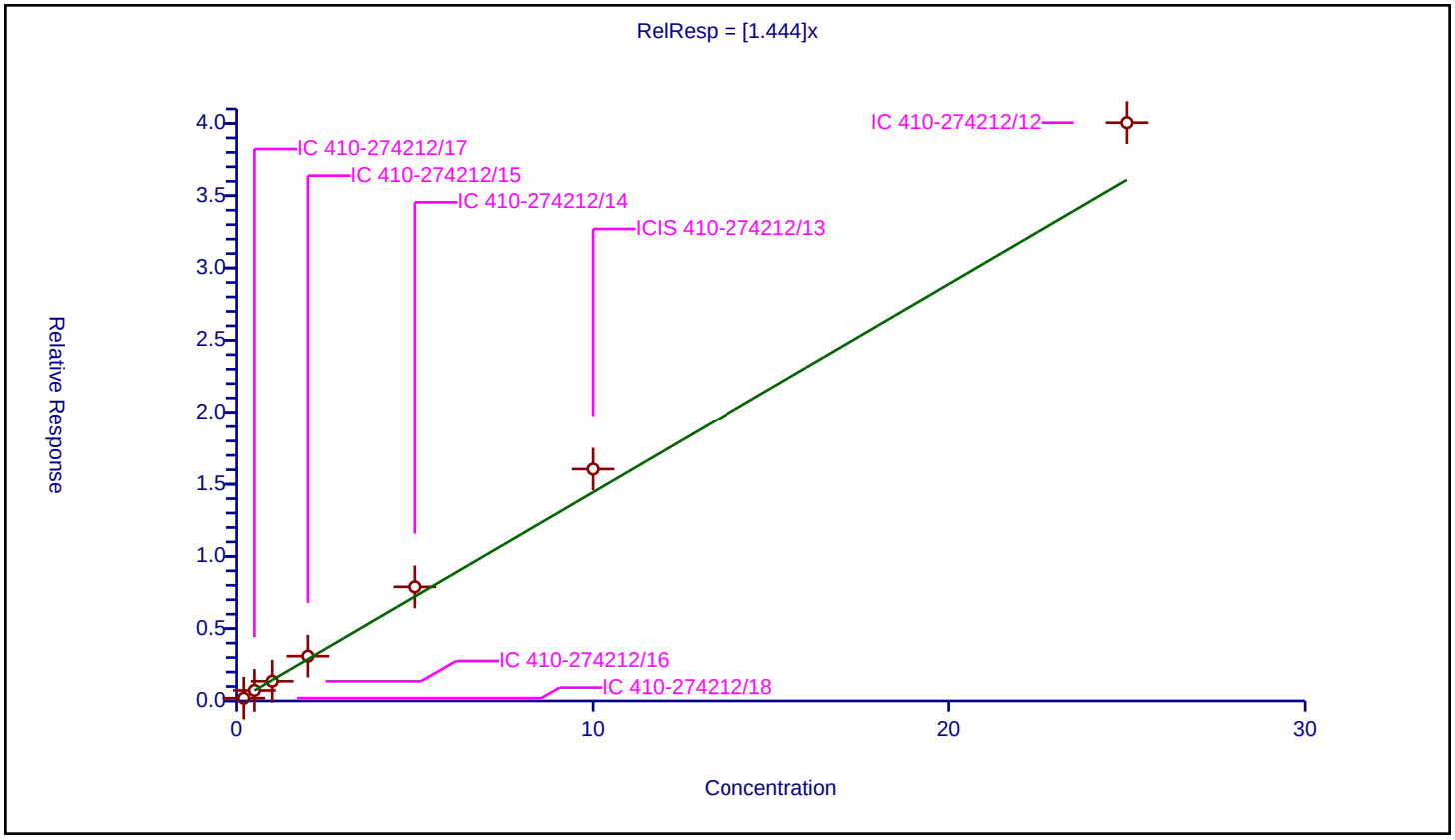
Curve Coefficients

Intercept:	0
Slope:	1.444

Error Coefficients

Standard Error:	1850000
Relative Standard Error:	16.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.191501	10.0	962398.0	0.957504	Y
2	IC 410-274212/17	0.5	0.728265	10.0	973807.0	1.456531	Y
3	IC 410-274212/16	1.0	1.361413	10.0	1008085.0	1.361413	Y
4	IC 410-274212/15	2.0	3.098693	10.0	1025087.0	1.549347	Y
5	IC 410-274212/14	5.0	7.892292	10.0	1050302.0	1.578458	Y
6	ICIS 410-274212/13	10.0	16.046737	10.0	1053034.0	1.604674	Y
7	IC 410-274212/12	25.0	40.052659	10.0	1027356.0	1.602106	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

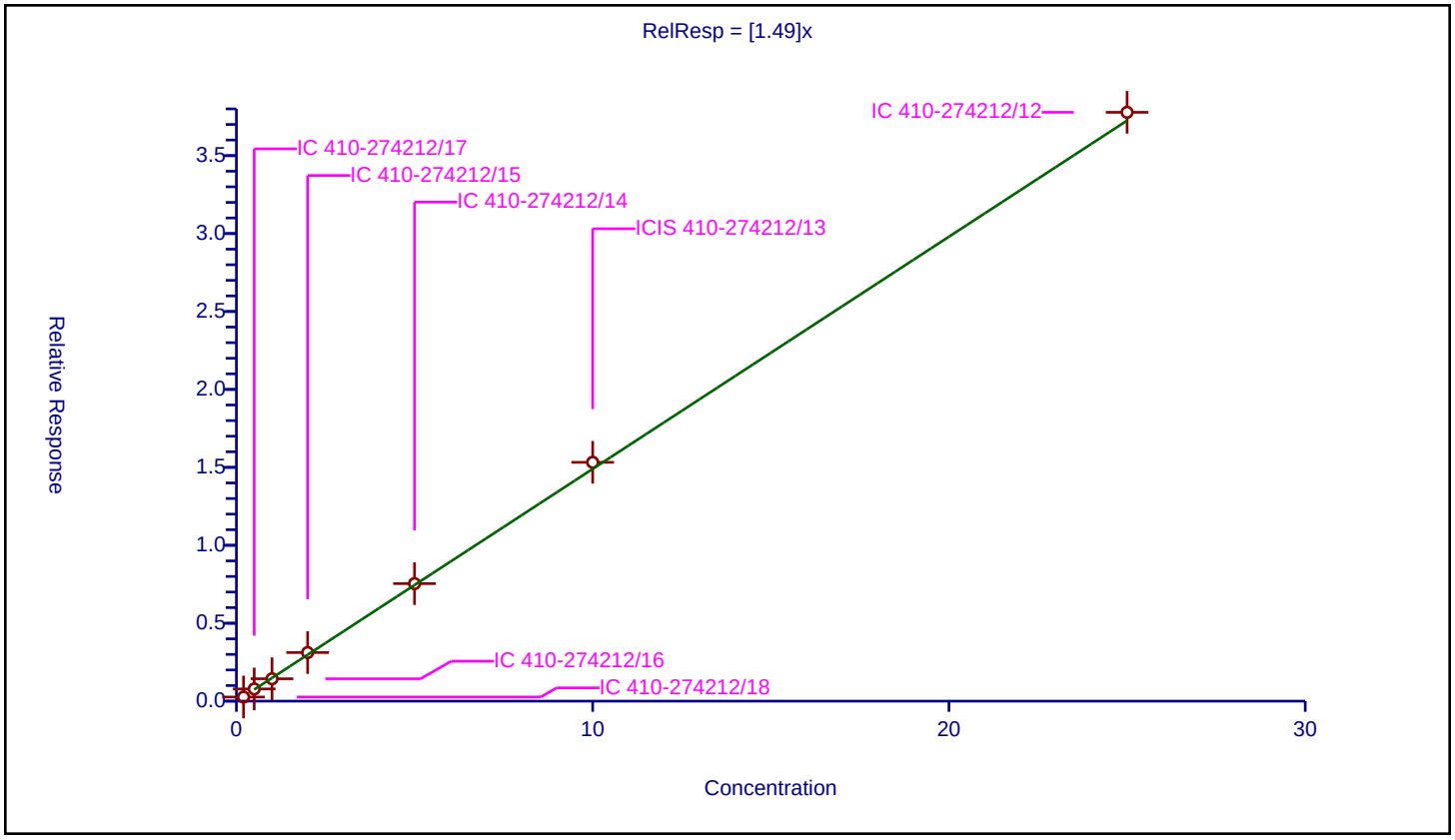
Curve Coefficients

Intercept:	0
Slope:	1.49

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.263321	10.0	962398.0	1.316607	Y
2	IC 410-274212/17	0.5	0.782773	10.0	973807.0	1.565546	Y
3	IC 410-274212/16	1.0	1.437091	10.0	1008085.0	1.437091	Y
4	IC 410-274212/15	2.0	3.11714	10.0	1025087.0	1.55857	Y
5	IC 410-274212/14	5.0	7.540127	10.0	1050302.0	1.508025	Y
6	ICIS 410-274212/13	10.0	15.323047	10.0	1053034.0	1.532305	Y
7	IC 410-274212/12	25.0	37.779845	10.0	1027356.0	1.511194	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

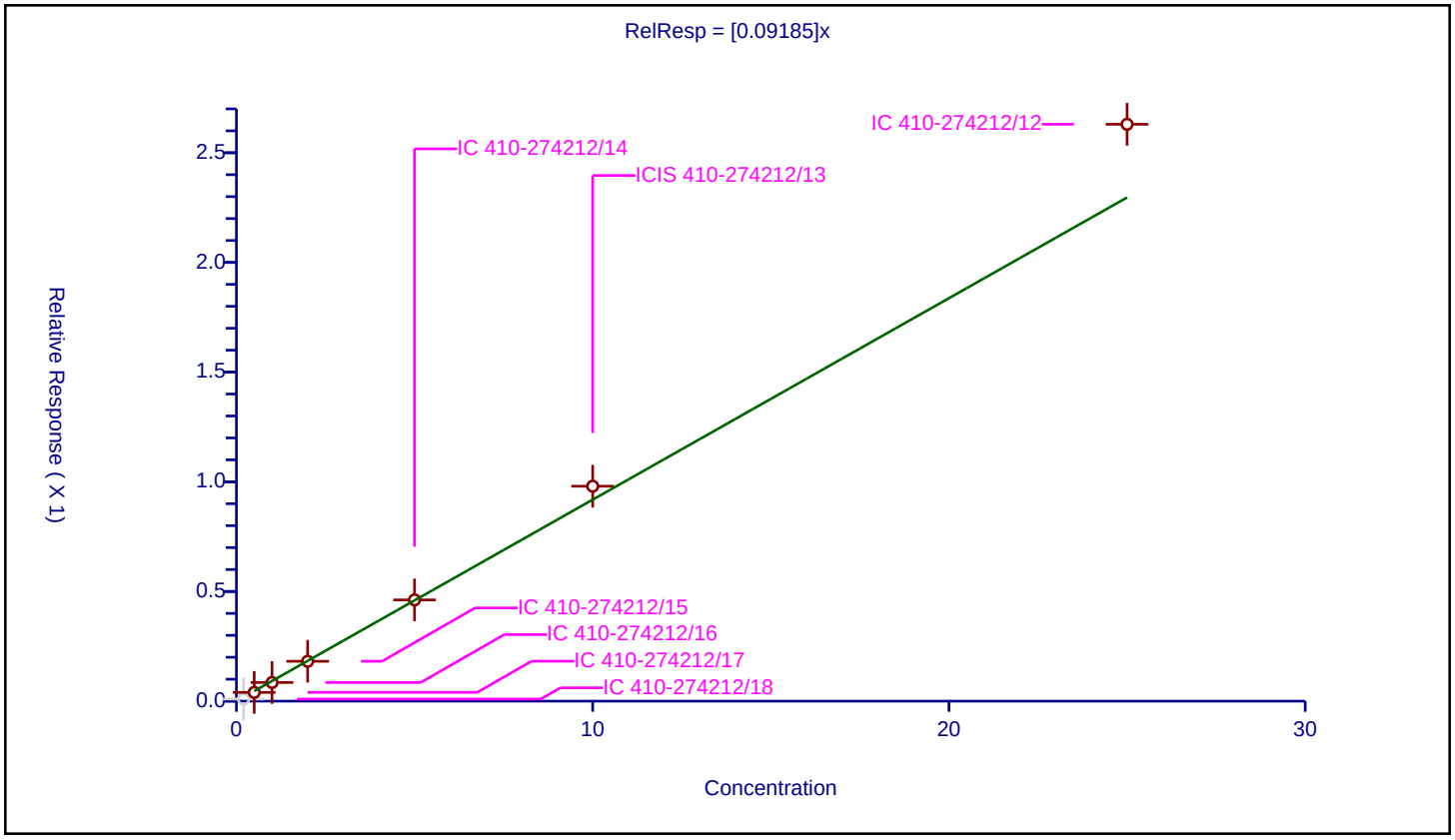
Curve Coefficients

Intercept:	0
Slope:	0.09185

Error Coefficients

Standard Error:	131000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.009497	10.0	962398.0	0.047486	N
2	IC 410-274212/17	0.5	0.039916	10.0	973807.0	0.079831	Y
3	IC 410-274212/16	1.0	0.084894	10.0	1008085.0	0.084894	Y
4	IC 410-274212/15	2.0	0.18176	10.0	1025087.0	0.09088	Y
5	IC 410-274212/14	5.0	0.461543	10.0	1050302.0	0.092309	Y
6	ICIS 410-274212/13	10.0	0.979778	10.0	1053034.0	0.097978	Y
7	IC 410-274212/12	25.0	2.629799	10.0	1027356.0	0.105192	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

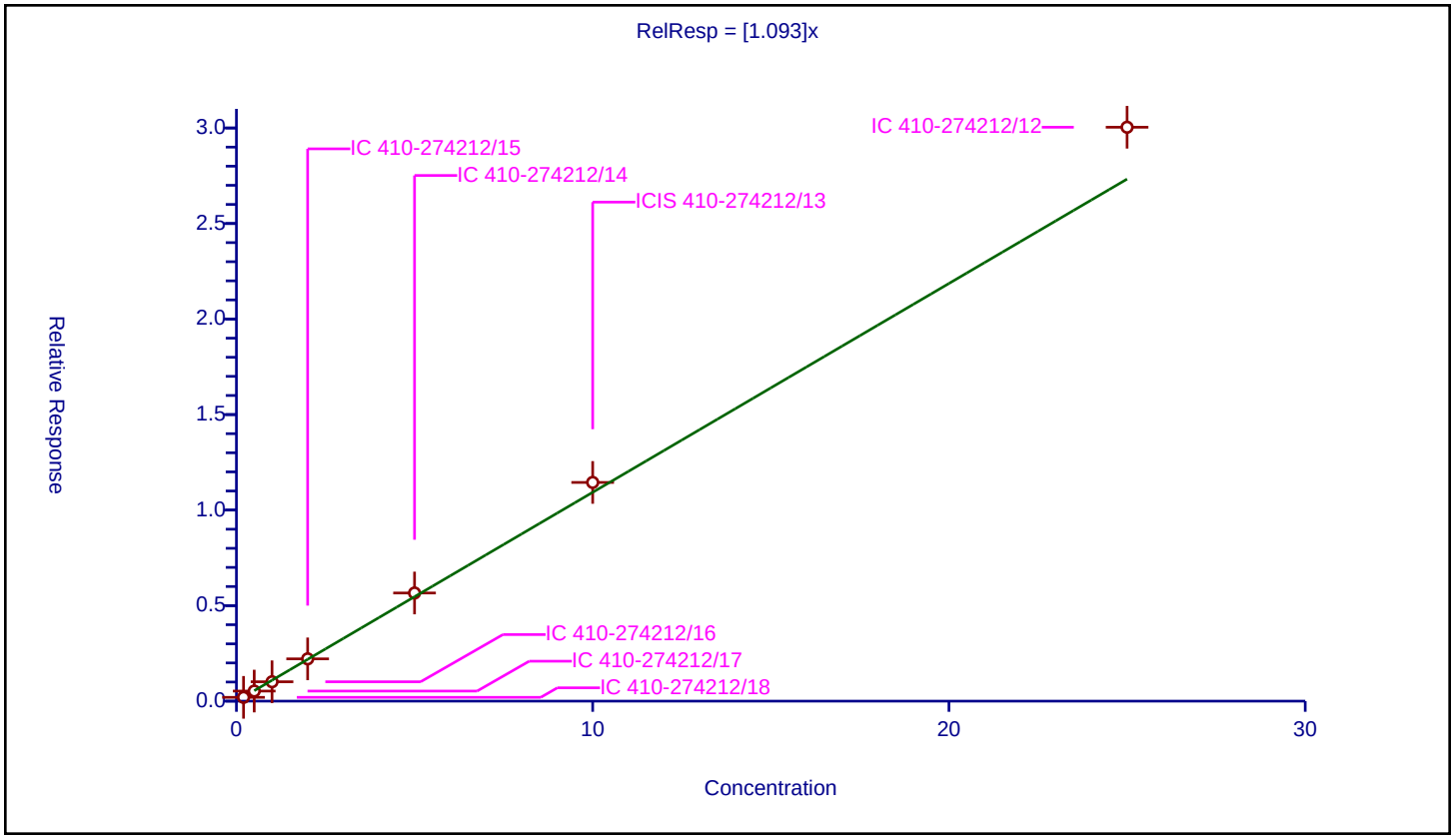
Curve Coefficients

Intercept:	0
Slope:	1.093

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.199169	10.0	962398.0	0.995846	Y
2	IC 410-274212/17	0.5	0.528072	10.0	973807.0	1.056144	Y
3	IC 410-274212/16	1.0	1.014121	10.0	1008085.0	1.014121	Y
4	IC 410-274212/15	2.0	2.213705	10.0	1025087.0	1.106852	Y
5	IC 410-274212/14	5.0	5.660705	10.0	1050302.0	1.132141	Y
6	ICIS 410-274212/13	10.0	11.447978	10.0	1053034.0	1.144798	Y
7	IC 410-274212/12	25.0	30.039733	10.0	1027356.0	1.201589	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

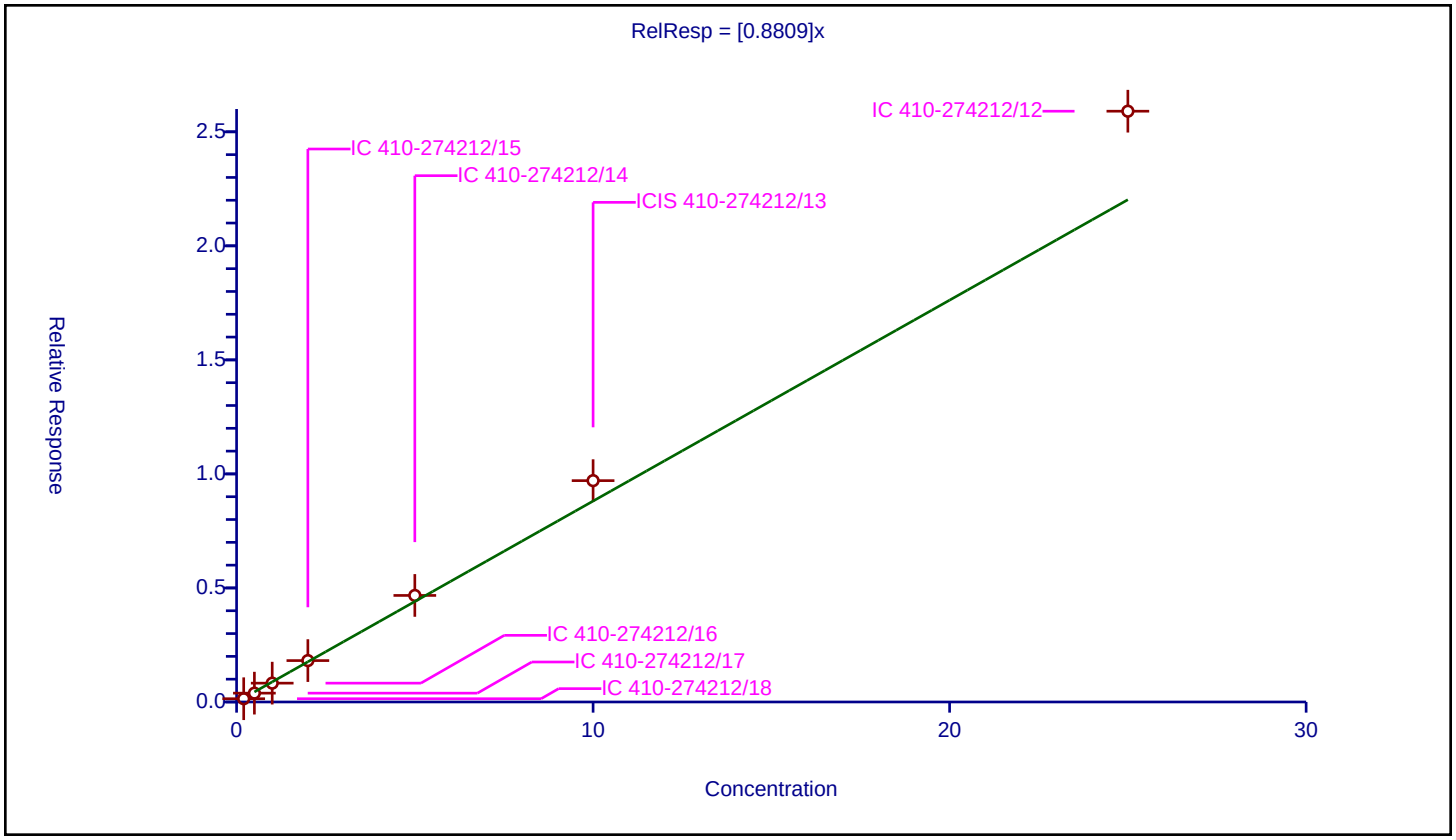
Curve Coefficients

Intercept:	0
Slope:	0.8809

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	12.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.143423	10.0	962398.0	0.717115	Y
2	IC 410-274212/17	0.5	0.38711	10.0	973807.0	0.774219	Y
3	IC 410-274212/16	1.0	0.826597	10.0	1008085.0	0.826597	Y
4	IC 410-274212/15	2.0	1.815017	10.0	1025087.0	0.907508	Y
5	IC 410-274212/14	5.0	4.671894	10.0	1050302.0	0.934379	Y
6	ICIS 410-274212/13	10.0	9.705508	10.0	1053034.0	0.970551	Y
7	IC 410-274212/12	25.0	25.904516	10.0	1027356.0	1.036181	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

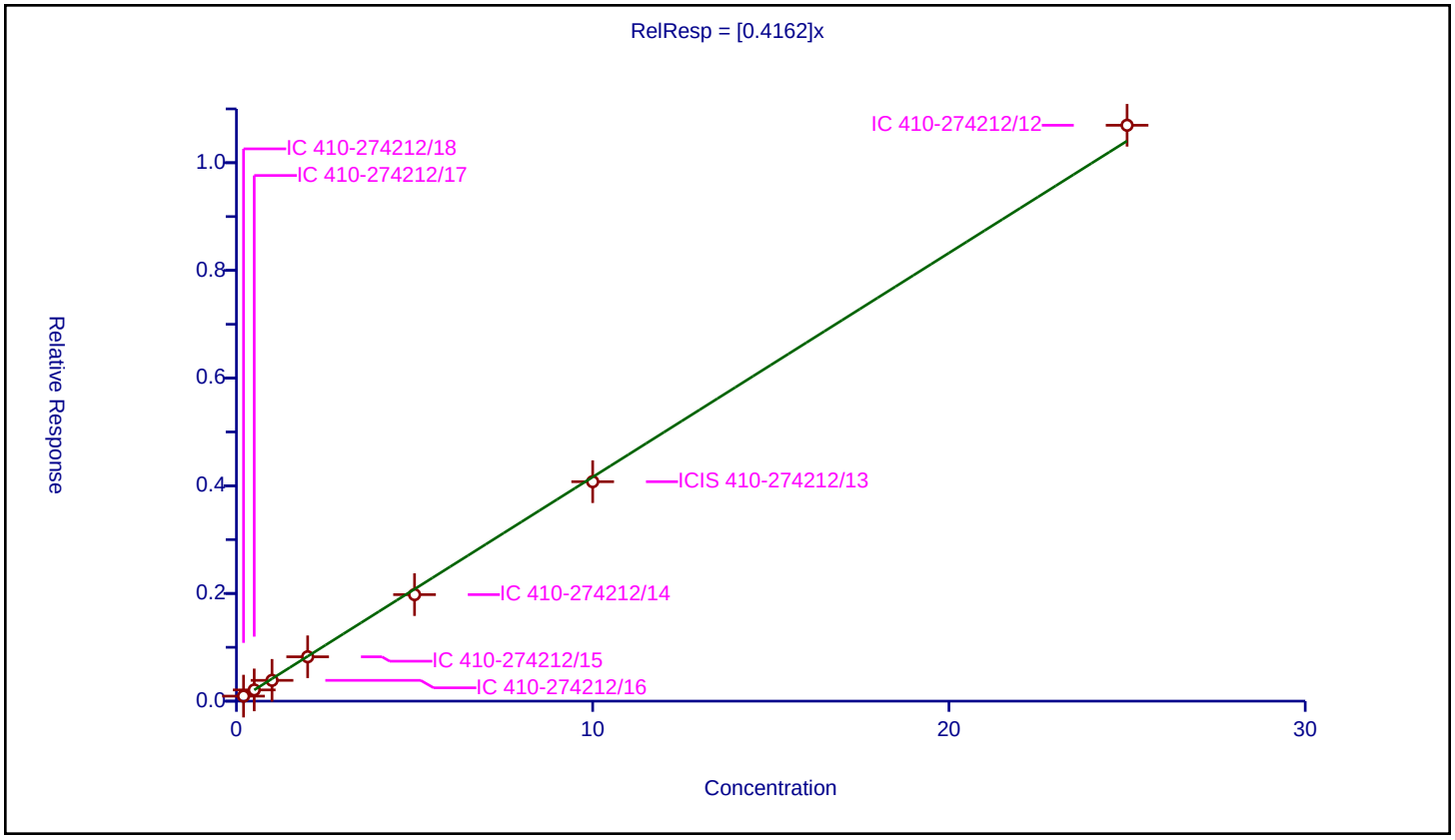
Curve Coefficients

Intercept:	0
Slope:	0.4162

Error Coefficients

Standard Error:	491000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.093423	10.0	962398.0	0.467114	Y
2	IC 410-274212/17	0.5	0.208542	10.0	973807.0	0.417085	Y
3	IC 410-274212/16	1.0	0.386088	10.0	1008085.0	0.386088	Y
4	IC 410-274212/15	2.0	0.823998	10.0	1025087.0	0.411999	Y
5	IC 410-274212/14	5.0	1.978298	10.0	1050302.0	0.39566	Y
6	ICIS 410-274212/13	10.0	4.075956	10.0	1053034.0	0.407596	Y
7	IC 410-274212/12	25.0	10.69599	10.0	1027356.0	0.42784	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

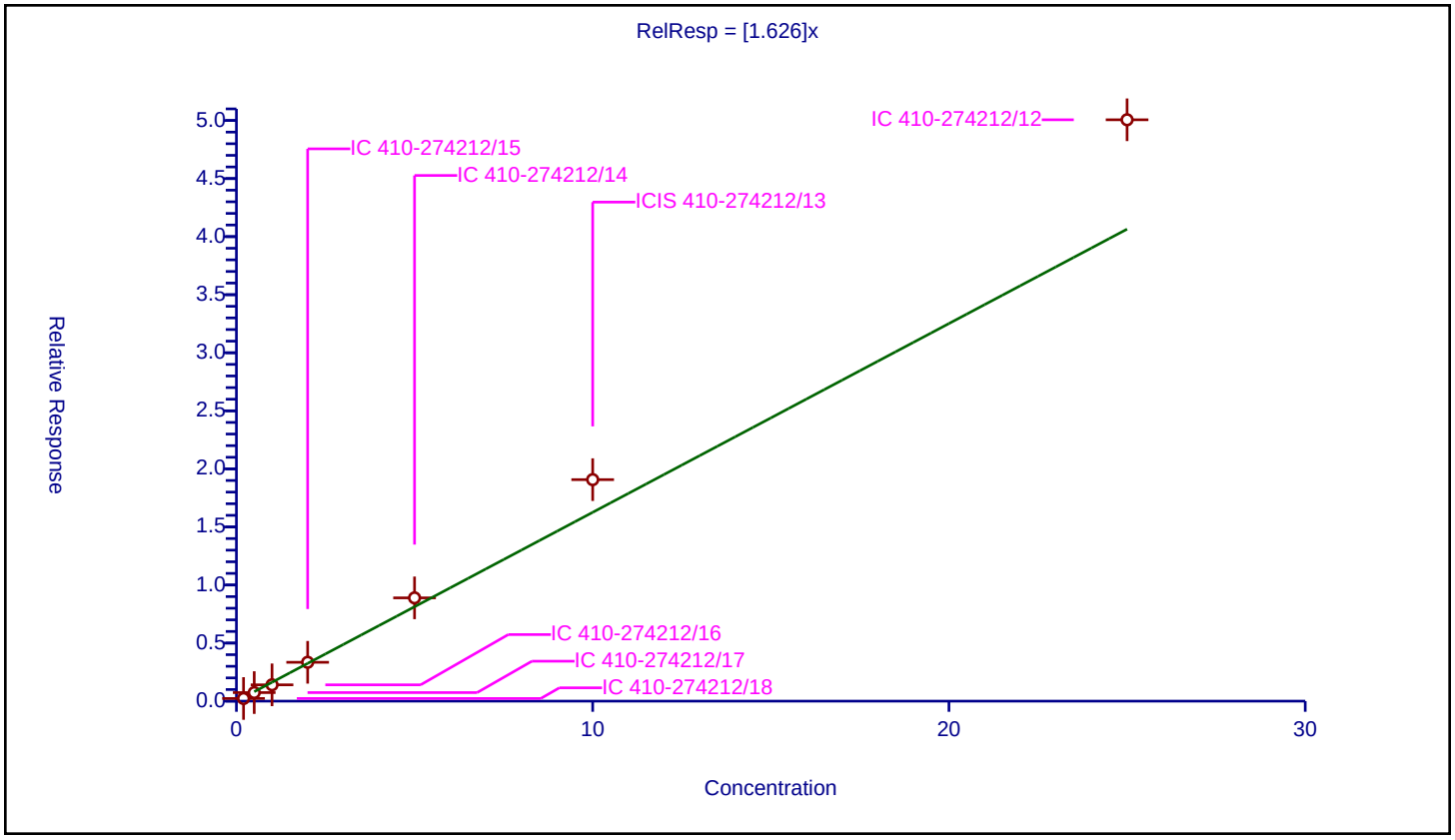
Curve Coefficients

Intercept:	0
Slope:	1.626

Error Coefficients

Standard Error:	2290000
Relative Standard Error:	18.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.228253	10.0	962398.0	1.141264	Y
2	IC 410-274212/17	0.5	0.73647	10.0	973807.0	1.472941	Y
3	IC 410-274212/16	1.0	1.405387	10.0	1008085.0	1.405387	Y
4	IC 410-274212/15	2.0	3.345482	10.0	1025087.0	1.672741	Y
5	IC 410-274212/14	5.0	8.892081	10.0	1050302.0	1.778416	Y
6	ICIS 410-274212/13	10.0	19.073458	10.0	1053034.0	1.907346	Y
7	IC 410-274212/12	25.0	50.062568	10.0	1027356.0	2.002503	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

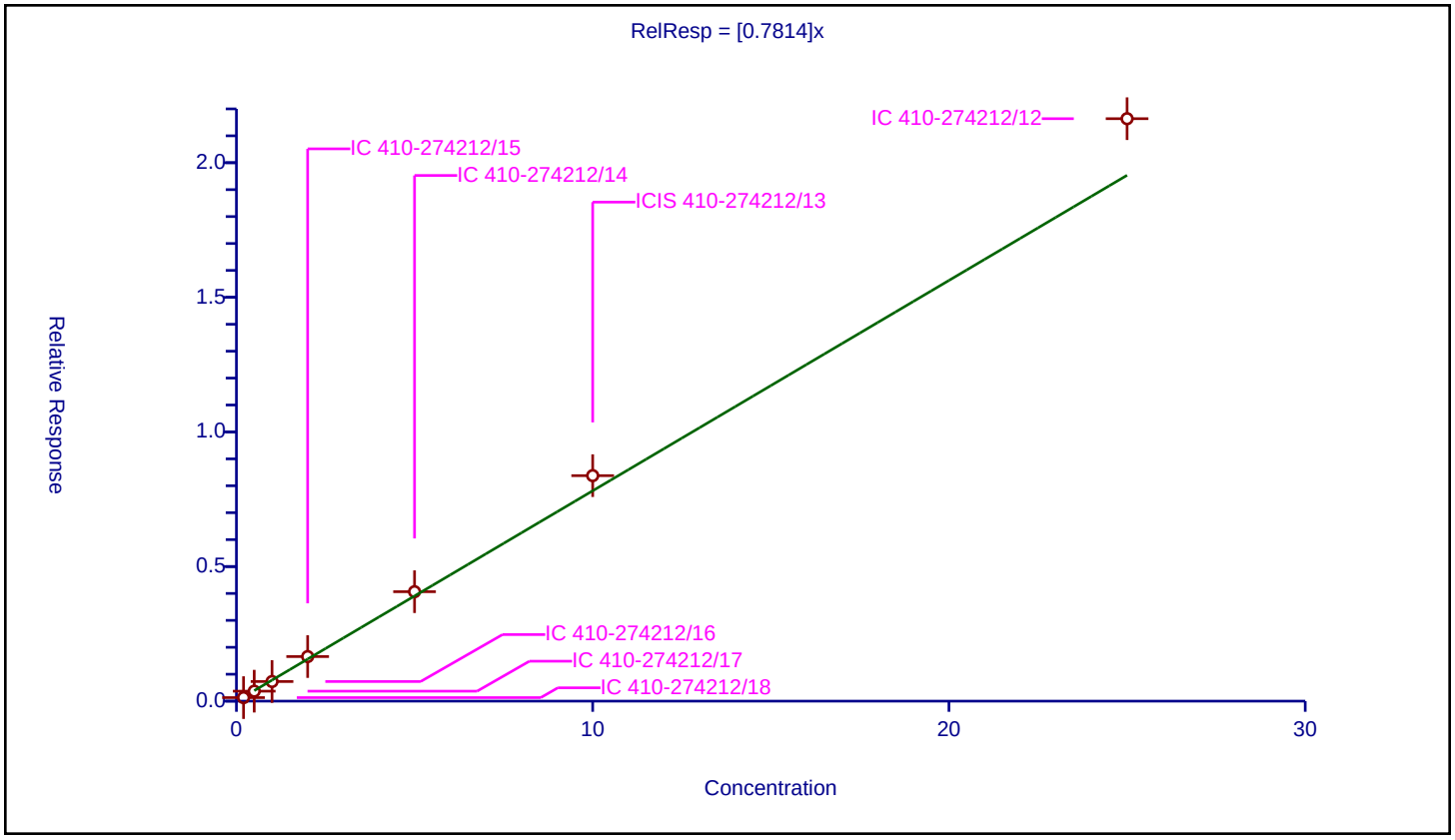
Curve Coefficients

Intercept:	0
Slope:	0.7814

Error Coefficients

Standard Error:	995000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274212/18	0.2	0.131235	10.0	962398.0	0.656173	Y
2	IC 410-274212/17	0.5	0.370607	10.0	973807.0	0.741215	Y
3	IC 410-274212/16	1.0	0.728371	10.0	1008085.0	0.728371	Y
4	IC 410-274212/15	2.0	1.655245	10.0	1025087.0	0.827622	Y
5	IC 410-274212/14	5.0	4.065707	10.0	1050302.0	0.813141	Y
6	ICIS 410-274212/13	10.0	8.375969	10.0	1053034.0	0.837597	Y
7	IC 410-274212/12	25.0	21.635996	10.0	1027356.0	0.86544	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: ICV 410-288300/21 Calibration Date: 08/22/2022 23:10

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CG22X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2854	0.2842	0.1000	4.98	5.00	-0.4	30.0
Chloromethane	Ave	0.3771	0.3566	0.1000	4.73	5.00	-5.4	30.0
Vinyl chloride	Ave	0.3499	0.3479	0.1000	4.97	5.00	-0.6	30.0
1,3-Butadiene	Ave	0.3741	0.3338		4.46	5.00	-10.8	30.0
Bromomethane	Ave	0.2328	0.2226	0.1000	4.78	5.00	-4.4	30.0
Chloroethane	Ave	0.2034	0.1964	0.1000	4.83	5.00	-3.4	30.0
Dichlorofluoromethane	Ave	0.4698	0.4781		5.09	5.00	1.8	30.0
Trichlorofluoromethane	Ave	0.3969	0.3996	0.1000	5.03	5.00	0.7	30.0
Ethyl ether	Ave	0.2035	0.2095		5.13	4.98	2.9	30.0
Freon 123a	Ave	0.3092	0.3058		4.95	5.00	-1.1	30.0
Acrolein	Ave	2.292	2.196		35.9	37.5	-4.2	30.0
1,1-Dichloroethene	Ave	0.2200	0.2431	0.1000	5.53	5.00	10.5	30.0
Acetone	Ave	2.576	2.212	0.1000	53.7	62.5	-14.1	30.0
Freon 113	Ave	0.2072	0.2389	0.1000	5.77	5.00	15.3	30.0
Methyl iodide	Ave	0.4049	0.4471		5.52	5.00	10.4	30.0
Ethyl bromide	Ave	0.2070	0.1864		4.40	4.89	-10.0	30.0
Carbon disulfide	Ave	0.6804	0.8401	0.1000	6.17	5.00	23.5	30.0
Methyl acetate	Ave	7.592	7.684	0.1000	5.06	5.00	1.2	30.0
Allyl chloride	Ave	0.4056	0.4511		5.56	5.00	11.2	30.0
Methylene Chloride	Ave	0.2608	0.2717	0.1000	5.21	5.00	4.2	30.0
t-Butyl alcohol	Ave	1.042	0.9534		45.7	50.0	-8.5	30.0
Acrylonitrile	Ave	3.878	3.885		25.0	25.0	0.2	30.0
Methyl tertiary butyl ether	Ave	0.6681	0.6920	0.1000	5.18	5.00	3.6	30.0
trans-1,2-Dichloroethene	Ave	0.2710	0.2797	0.1000	5.16	5.00	3.2	30.0
n-Hexane	Ave	0.3635	0.3831		5.27	5.00	5.4	30.0
1,1-Dichloroethane	Ave	0.4989	0.5052	0.2000	5.06	5.00	1.3	30.0
di-Isopropyl ether	Ave	0.9172	0.9321		5.08	5.00	1.6	30.0
2-Chloro-1,3-butadiene	Ave	0.3897	0.4239		5.44	5.00	8.8	30.0
Ethyl t-butyl ether	Ave	0.8471	0.8879		5.24	5.00	4.8	30.0
2-Butanone	Ave	5.255	5.268	0.1000	62.7	62.5	0.2	30.0
cis-1,2-Dichloroethene	Ave	0.2969	0.3142	0.1000	5.29	5.00	5.8	30.0
2,2-Dichloropropane	Ave	0.3940	0.4132		5.24	5.00	4.9	30.0
Propionitrile	Ave	1.308	1.255		36.0	37.5	-4.0	30.0
Methacrylonitrile	Ave	5.552	5.615		37.9	37.5	1.1	30.0
Bromochloromethane	Ave	0.1315	0.1360		5.17	5.00	3.4	30.0
Tetrahydrofuran	Ave	1.489	1.516		25.5	25.0	1.8	30.0
Chloroform	Ave	0.4701	0.4718	0.2000	5.02	5.00	0.4	30.0
1,1,1-Trichloroethane	Ave	0.4109	0.4176	0.1000	5.08	5.00	1.6	30.0
Cyclohexane	Ave	0.4623	0.4951	0.1000	5.35	5.00	7.1	30.0
Carbon tetrachloride	Ave	0.3450	0.3656	0.1000	5.30	5.00	6.0	30.0
1,1-Dichloropropene	Ave	0.3841	0.3935		5.12	5.00	2.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: ICV 410-288300/21 Calibration Date: 08/22/2022 23:10

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CG22X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Ave	0.3699	0.3322		112	125	-10.2	30.0
Benzene	Ave	1.151	1.169	0.5000	5.08	5.00	1.6	30.0
1,2-Dichloroethane	Ave	0.2916	0.2817	0.1000	4.83	5.00	-3.4	30.0
t-Amyl methyl ether	Ave	0.7640	0.7714		5.05	5.00	1.0	30.0
n-Heptane	Ave	0.4132	0.4172		5.05	5.00	1.0	30.0
n-Butanol	Ave	0.2966	0.2726		230	250	-8.1	30.0
Trichloroethene	Ave	0.2950	0.3015	0.2000	5.11	5.00	2.2	30.0
Methylcyclohexane	Ave	0.4906	0.5135	0.1000	5.23	5.00	4.7	30.0
1,2-Dichloropropane	Ave	0.3058	0.3067	0.1000	5.01	5.00	0.3	30.0
1,4-Dioxane	Qua		0.0627	0.0050	105	125	-15.6	30.0
Dibromomethane	Ave	0.1364	0.1353		4.96	5.00	-0.8	30.0
Methyl methacrylate	Ave	10.12	11.31		5.59	5.00	11.7	30.0
Bromodichloromethane	Ave	0.3358	0.3415	0.2000	5.08	5.00	1.7	30.0
2-Nitropropane	Ave	2.882	2.596		4.50	5.00	-9.9	30.0
1-Bromo-2-chloroethane	Ave	0.3050	0.3061		5.02	5.00	0.4	30.0
cis-1,3-Dichloropropene	Ave	0.4402	0.4513	0.2000	5.13	5.00	2.5	30.0
4-Methyl-2-pentanone	Ave	14.22	14.79	0.1000	65.0	62.5	4.0	30.0
Toluene	Ave	0.9723	0.9862	0.4000	5.07	5.00	1.4	30.0
trans-1,3-Dichloropropene	Ave	0.4678	0.5045	0.1000	5.39	5.00	7.8	30.0
Ethyl methacrylate	Ave	0.3782	0.3944		5.21	5.00	4.3	30.0
1,1,2-Trichloroethane	Ave	0.2693	0.2688	0.1000	4.99	5.00	-0.2	30.0
Tetrachloroethene	Ave	0.4530	0.4623	0.2000	5.10	5.00	2.1	30.0
1,3-Dichloropropane	Ave	0.4650	0.4721		5.08	5.00	1.5	30.0
2-Hexanone	Ave	10.07	10.81	0.1000	67.1	62.5	7.4	30.0
Dibromochloromethane	Ave	0.3217	0.3269		5.08	5.00	1.6	30.0
1,2-Dibromoethane	Ave	0.2534	0.2527	0.1000	4.99	5.00	-0.3	30.0
1-Chlorohexane	Ave	0.5542	0.5406		4.88	5.00	-2.5	30.0
Chlorobenzene	Ave	1.147	1.136	0.5000	4.95	5.00	-0.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3800	0.3842		5.06	5.00	1.1	30.0
Ethylbenzene	Ave	1.891	1.923	0.1000	5.08	5.00	1.7	30.0
m&p-Xylene	Ave	0.7579	0.7699	0.1000	10.2	10.0	1.6	30.0
o-Xylene	Ave	0.7529	0.7604	0.3000	5.05	5.00	1.0	30.0
Styrene	Ave	1.232	1.264	0.3000	5.13	5.00	2.6	30.0
Bromoform	Ave	0.1877	0.1917	0.1000	5.11	5.00	2.2	30.0
Isopropylbenzene	Ave	1.913	1.973	0.1000	5.16	5.00	3.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5912	0.5849	0.3000	4.95	5.00	-1.1	30.0
Bromobenzene	Ave	0.8315	0.8445		5.08	5.00	1.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1428	0.1407		24.6	25.0	-1.5	30.0
1,2,3-Trichloropropane	Ave	0.1547	0.1500		4.85	5.00	-3.0	30.0
N-Propylbenzene	Ave	3.986	3.968		4.98	5.00	-0.4	30.0
2-Chlorotoluene	Ave	0.8351	0.8268		4.95	5.00	-1.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: ICV 410-288300/21 Calibration Date: 08/22/2022 23:10

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CG22X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.870	2.899		5.05	5.00	1.0	30.0
4-Chlorotoluene	Ave	0.8567	0.8718		5.09	5.00	1.8	30.0
tert-Butylbenzene	Ave	0.6329	0.6271		4.95	5.00	-0.9	30.0
Pentachloroethane	Ave	0.4781	0.5019		5.25	5.00	5.0	30.0
1,2,4-Trimethylbenzene	Ave	2.981	2.989		5.01	5.00	0.3	30.0
sec-Butylbenzene	Ave	3.648	3.771		5.17	5.00	3.4	30.0
1,3-Dichlorobenzene	Ave	1.705	1.684	0.6000	4.94	5.00	-1.2	30.0
p-Isopropyltoluene	Ave	3.247	3.316		5.11	5.00	2.1	30.0
1,4-Dichlorobenzene	Ave	1.741	1.735	0.5000	4.98	5.00	-0.3	30.0
1,2,3-Trimethylbenzene	Ave	1.359	1.335		4.91	5.00	-1.7	30.0
Benzyl chloride	Ave	0.2443	0.2441		4.99	5.00	-0.1	30.0
n-Butylbenzene	Ave	1.636	1.641		5.01	5.00	0.3	30.0
1,2-Dichlorobenzene	Ave	1.568	1.542	0.4000	4.92	5.00	-1.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0835	0.0824	0.0500	4.94	5.00	-1.2	30.0
1,3,5-Trichlorobenzene	Ave	1.343	1.346		5.01	5.00	0.2	30.0
1,2,4-Trichlorobenzene	Ave	1.132	1.144	0.2000	5.05	5.00	1.0	30.0
Hexachlorobutadiene	Ave	0.5847	0.5904		5.05	5.00	1.0	30.0
Naphthalene	Ave	1.801	1.869		5.19	5.00	3.8	30.0
1,2,3-Trichlorobenzene	Ave	0.9122	0.9437		5.17	5.00	3.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2337	0.2337		10.0	10.0	-0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0480	0.0470		9.78	10.0	-2.2	30.0
Toluene-d8 (Surr)	Ave	1.318	1.338		10.2	10.0	1.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4876	0.4886		10.0	10.0	0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X20.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 22-Aug-2022 23:10:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-021
Misc. Info.: ICV LG
Operator ID: knk41612 Instrument ID: 10193
Sublist:

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:04 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.757	1.764	-0.007	99	282292	5.00	4.98	
5 Chloromethane	50	1.934	1.940	-0.006	99	354285	5.00	4.73	
6 Vinyl chloride	62	2.038	2.038	0.000	98	345644	5.00	4.97	
7 Butadiene	39	2.044	2.050	-0.006	92	331620	5.00	4.46	
9 Bromomethane	94	2.331	2.331	0.000	90	221169	5.00	4.78	
10 Chloroethane	64	2.392	2.398	-0.006	100	195131	5.00	4.83	
11 Dichlorofluoromethane	67	2.611	2.617	-0.006	97	474895	5.00	5.09	
12 Trichlorofluoromethane	101	2.672	2.672	0.000	94	396941	5.00	5.03	
13 Pentane	43	2.678	2.678	0.000	97	432531	5.00	6.19	
15 Ethyl ether	59	2.861	2.861	0.000	91	207447	4.98	5.13	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.952	2.959	-0.007	93	303765	5.00	4.95	
17 Acrolein	56	3.013	3.013	0.000	99	197886	37.5	35.9	
19 1,1-Dichloroethene	96	3.129	3.135	-0.006	98	241473	5.00	5.53	
20 Acetone	43	3.160	3.166	-0.006	92	332224	62.5	53.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.172	3.178	-0.006	91	237340	5.00	5.77	
22 Iodomethane	142	3.300	3.300	0.000	97	444106	5.00	5.52	
23 Isopropyl alcohol	45	3.306	3.318	-0.012	29	47539	37.5	34.8	
24 Ethyl bromide	108	3.324	3.324	0.000	98	180913	4.89	4.40	
25 Carbon disulfide	76	3.391	3.391	0.000	99	834493	5.00	6.17	
27 Methyl acetate	43	3.525	3.532	-0.007	96	92316	5.00	5.06	
28 3-Chloro-1-propene	41	3.544	3.544	0.000	93	448073	5.00	5.56	
29 Methylene Chloride	84	3.708	3.708	0.000	94	269871	5.00	5.21	
* 30 t-Butyl alcohol-d10 (IS)	65	3.739	3.745	-0.006	44	120148	50.0	50.0	
31 2-Methyl-2-propanol	59	3.842	3.849	-0.007	99	114545	50.0	45.7	
32 Acrylonitrile	53	4.013	4.019	-0.006	99	233374	25.0	25.0	
33 Methyl tert-butyl ether	73	4.062	4.068	-0.006	95	687379	5.00	5.18	
34 trans-1,2-Dichloroethene	96	4.068	4.074	-0.006	99	277861	5.00	5.16	
35 Hexane	57	4.470	4.470	0.000	93	380592	5.00	5.27	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	501807	5.00	5.06	
38 Isopropyl ether	45	4.781	4.787	-0.006	95	925912	5.00	5.08	
39 2-Chloro-1,3-butadiene	53	4.830	4.830	0.000	90	421079	5.00	5.44	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.330	5.330	0.000	98	882019	5.00	5.24	
41 2-Butanone (MEK)	43	5.543	5.543	0.000	100	791133	62.5	62.7	
42 cis-1,2-Dichloroethene	96	5.574	5.574	0.000	83	312149	5.00	5.29	
43 2,2-Dichloropropane	77	5.586	5.586	0.000	86	410431	5.00	5.24	
45 Propionitrile	54	5.641	5.635	0.006	97	113129	37.5	36.0	
46 Methacrylonitrile	67	5.854	5.860	-0.006	92	505945	37.5	37.9	
47 Chlorobromomethane	128	5.915	5.909	0.006	94	135066	5.00	5.17	
48 Tetrahydrofuran	71	5.915	5.927	-0.012	66	91079	25.0	25.5	
50 Chloroform	83	6.074	6.074	0.000	93	468690	5.00	5.02	
52 1,1,1-Trichloroethane	97	6.281	6.293	-0.012	82	414861	5.00	5.08	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	464280	10.0	10.0	
54 Cyclohexane	56	6.379	6.385	-0.006	91	491809	5.00	5.35	
55 Carbon tetrachloride	117	6.500	6.501	-0.001	95	363172	5.00	5.30	
56 1,1-Dichloropropene	75	6.507	6.513	-0.006	98	390936	5.00	5.12	
57 Isobutyl alcohol	41	6.714	6.708	0.006	93	99780	125.0	112.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.750	6.757	-0.007	95	93323	10.0	9.78	
59 Benzene	78	6.775	6.775	0.000	97	1161595	5.00	5.08	
61 1,2-Dichloroethane	62	6.854	6.860	-0.006	97	279852	5.00	4.83	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	766266	5.00	5.05	
* 64 Fluorobenzene (IS)	96	7.189	7.196	-0.007	98	1986750	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	93	414477	5.00	5.05	
66 n-Butanol	56	7.628	7.622	0.006	89	163781	250.0	229.8	
67 Trichloroethene	95	7.683	7.683	0.000	97	299491	5.00	5.11	
68 Methylcyclohexane	83	7.982	7.982	0.000	90	510062	5.00	5.23	
69 1,2-Dichloropropane	63	8.018	8.025	-0.007	98	304632	5.00	5.01	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	93	456153	5.00	5.15	
71 Methyl methacrylate	69	8.128	8.128	0.000	93	135909	5.00	5.59	
72 1,4-Dioxane	88	8.122	8.134	-0.012	28	18820	125.0	105.5	M
73 Dibromomethane	93	8.128	8.134	-0.006	89	134407	5.00	4.96	
75 Dichlorobromomethane	83	8.378	8.384	-0.006	99	339287	5.00	5.08	
76 2-Nitropropane	41	8.665	8.665	0.000	97	31188	5.00	4.50	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	304063	5.00	5.02	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	448279	5.00	5.13	
81 4-Methyl-2-pentanone (MIBK)	43	9.152	9.159	-0.007	96	2221203	62.5	65.0	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2032411	10.0	10.2	
83 Toluene	92	9.366	9.366	0.000	98	749022	5.00	5.07	
84 trans-1,3-Dichloropropene	75	9.658	9.658	0.000	92	383163	5.00	5.39	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	299555	5.00	5.21	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	204141	5.00	4.99	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	351097	5.00	5.10	
102 1,3-Dichloropropane	76	10.042	10.043	0.000	90	358561	5.00	5.08	
104 2-Hexanone	43	10.116	10.116	0.000	96	1624164	62.5	67.1	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	248296	5.00	5.08	
107 Ethylene Dibromide	107	10.378	10.378	0.000	98	191889	5.00	4.99	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	84	1518942	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	410596	5.00	4.88	
110 Chlorobenzene	112	10.859	10.859	0.000	96	863044	5.00	4.95	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	96	291817	5.00	5.06	
112 Ethylbenzene	91	10.951	10.957	-0.006	98	1460417	5.00	5.08	
113 m-Xylene & p-Xylene	106	11.073	11.079	-0.006	100	1169412	10.0	10.2	
115 o-Xylene	106	11.414	11.414	0.000	97	577534	5.00	5.05	
116 Styrene	104	11.432	11.432	0.000	95	960321	5.00	5.13	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 Bromoform	173	11.591	11.591	0.000	98	145618	5.00	5.11	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	1498286	5.00	5.16	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	742222	10.0	10.0	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	69	258034	5.00	4.95	
122 Bromobenzene	156	11.987	11.987	0.000	91	372540	5.00	5.08	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	89	310247	25.0	24.6	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	80	66152	5.00	4.85	
126 N-Propylbenzene	91	12.066	12.067	0.000	99	1750582	5.00	4.98	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	364744	5.00	4.95	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	1278875	5.00	5.05	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	384610	5.00	5.09	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	276627	5.00	4.95	
131 Pentachloroethane	167	12.481	12.481	0.000	94	221423	5.00	5.25	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	97	1318577	5.00	5.01	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	1663676	5.00	5.17	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	742740	5.00	4.94	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	1462889	5.00	5.11	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	93	882310	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	96	765302	5.00	4.98	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	588910	5.00	4.91	
139 Benzyl chloride	126	12.877	12.877	0.000	98	107673	5.00	4.99	
140 n-Butylbenzene	92	13.030	13.030	0.000	98	723776	5.00	5.01	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	680239	5.00	4.92	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	727997	5.00	4.98	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	36358	5.00	4.94	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	593651	5.00	5.01	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	504730	5.00	5.05	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	97	260470	5.00	5.05	
149 Naphthalene	128	14.346	14.347	-0.001	96	824478	5.00	5.19	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	416330	5.00	5.17	
151 2-Methylnaphthalene	142	15.096	15.090	0.006	92	420238	5.00	5.60	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00069	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00096	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00072	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00019	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

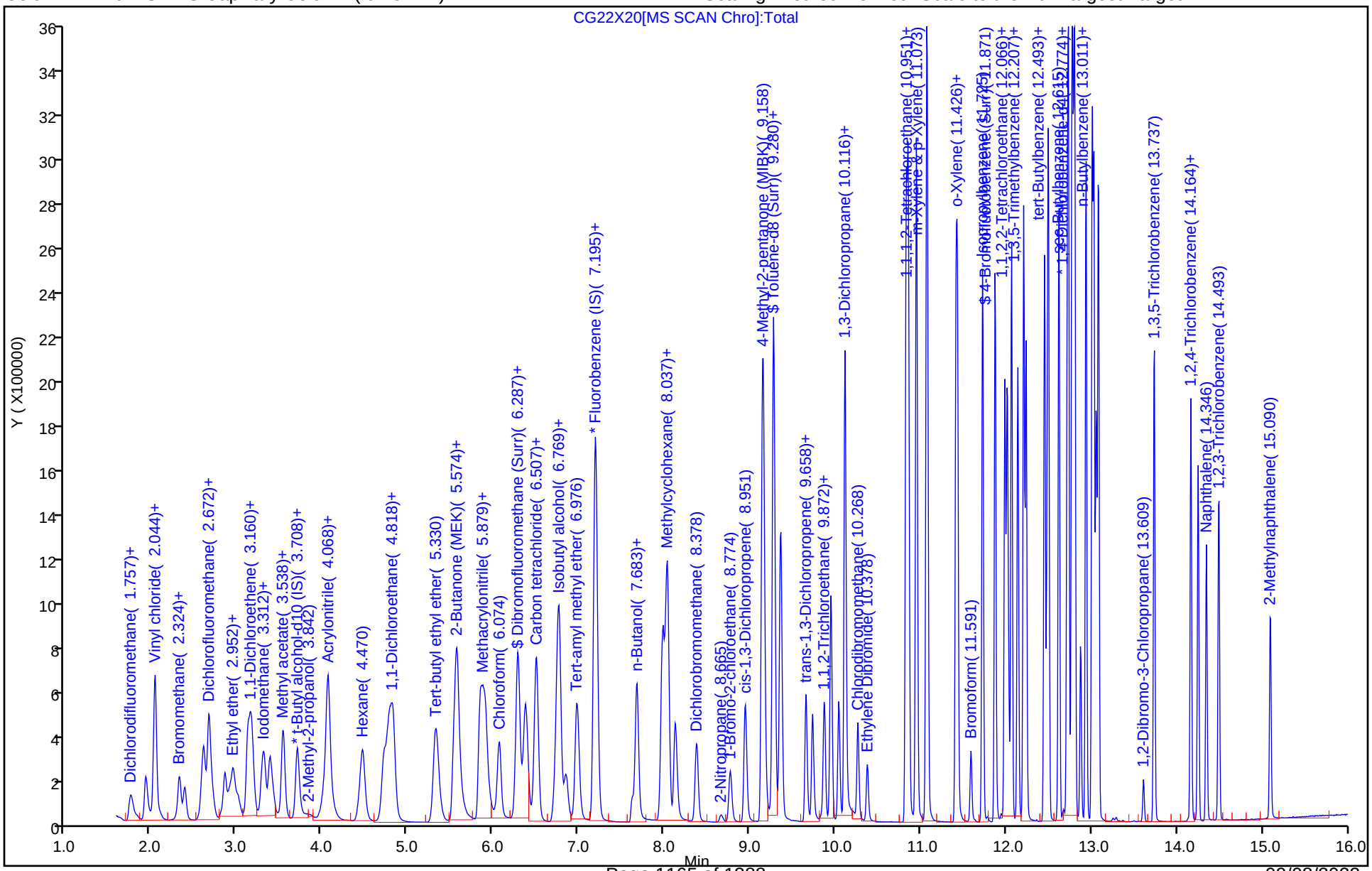
Report Date: 31-Aug-2022 08:31:04 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X20.D

Injection Date:	22-Aug-2022 23:10:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	ICV			Worklist Smp#:	21
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

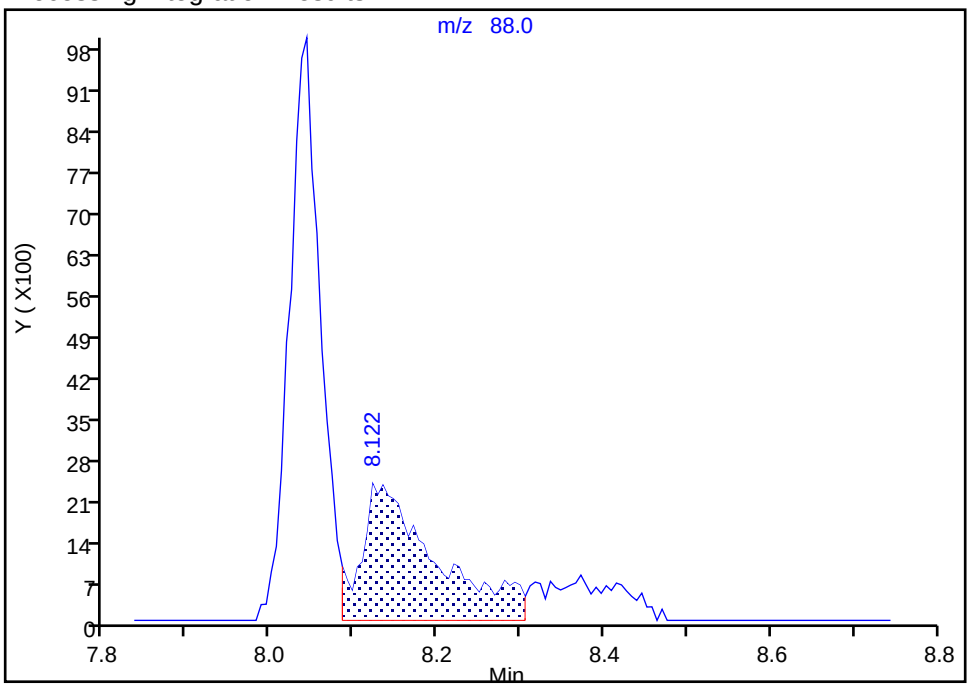
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X20.D				
Injection Date:	22-Aug-2022 23:10:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

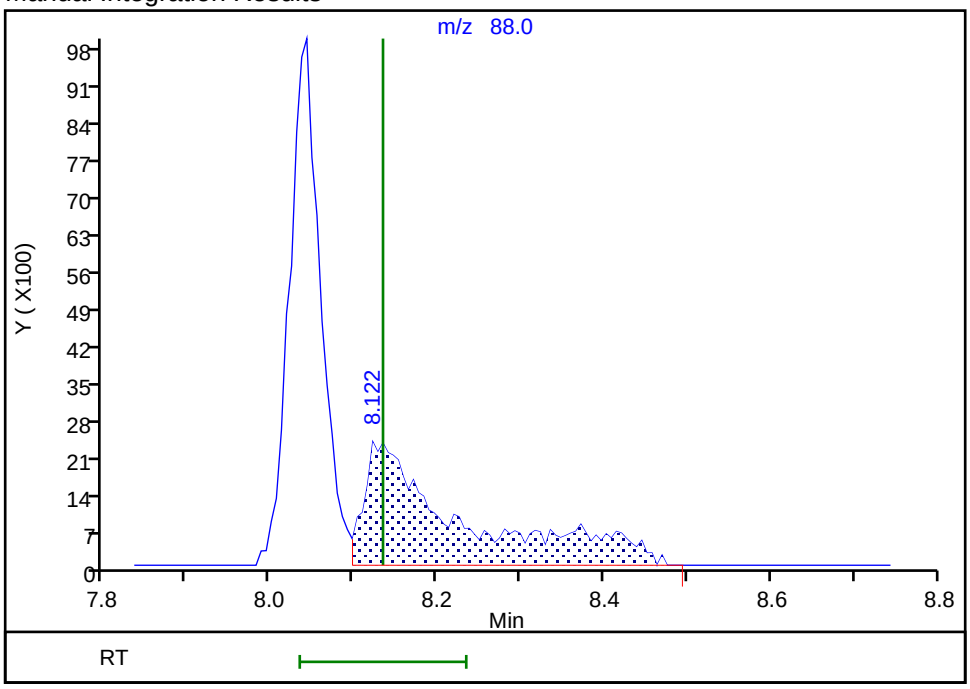
Processing Integration Results

RT: 8.12
Area: 14511
Amount: 81.928582
Amount Units: ug/l



Manual Integration Results

RT: 8.12
Area: 18820
Amount: 105.4887
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:33:51
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-292752/3 Calibration Date: 09/05/2022 10:50

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CS05X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2854	0.2664	0.1000	11.7	12.5	-6.6	20.0
Chloromethane	Ave	0.3771	0.3361	0.1000	11.1	12.5	-10.9	20.0
Vinyl chloride	Ave	0.3499	0.3213	0.1000	11.5	12.5	-8.2	20.0
1,3-Butadiene	Ave	0.3741	0.3752		12.5	12.5	0.3	20.0
Bromomethane	Ave	0.2328	0.2172	0.1000	11.7	12.5	-6.7	20.0
Chloroethane	Ave	0.2034	0.1814	0.1000	11.1	12.5	-10.8	20.0
Dichlorofluoromethane	Ave	0.4698	0.4298		11.4	12.5	-8.5	20.0
Trichlorofluoromethane	Ave	0.3969	0.3917	0.1000	12.3	12.5	-1.3	20.0
Ethyl ether	Ave	0.2035	0.1893		11.6	12.5	-7.0	20.0
Freon 123a	Ave	0.3092	0.2866		11.6	12.5	-7.3	20.0
Acrolein	Ave	2.292	1.719		469	625	-25.0*	20.0
1,1-Dichloroethene	Ave	0.2200	0.2029	0.1000	11.5	12.5	-7.7	20.0
Acetone	Ave	2.576	2.162	0.1000	105	125	-16.1	20.0
Freon 113	Ave	0.2072	0.1994	0.1000	12.0	12.5	-3.7	20.0
Methyl iodide	Ave	0.4049	0.3769		11.6	12.5	-6.9	20.0
Ethyl bromide	Ave	0.2070	0.1973		11.9	12.5	-4.7	20.0
Carbon disulfide	Ave	0.6804	0.6425	0.1000	11.8	12.5	-5.6	20.0
Methyl acetate	Ave	7.592	6.613	0.1000	10.9	12.5	-12.9	20.0
Allyl chloride	Ave	0.4056	0.3687		11.4	12.5	-9.1	20.0
Methylene Chloride	Ave	0.2608	0.2447	0.1000	11.7	12.5	-6.2	20.0
t-Butyl alcohol	Ave	1.042	1.166		280	250	11.9	20.0
Acrylonitrile	Ave	3.878	3.311		26.7	31.3	-14.6	20.0
Methyl tertiary butyl ether	Ave	0.6681	0.6308	0.1000	11.8	12.5	-5.6	20.0
trans-1,2-Dichloroethene	Ave	0.2710	0.2515	0.1000	11.6	12.5	-7.2	20.0
n-Hexane	Ave	0.3635	0.3429		11.8	12.5	-5.7	20.0
1,1-Dichloroethane	Ave	0.4989	0.4618	0.2000	11.6	12.5	-7.4	20.0
di-Isopropyl ether	Ave	0.9172	0.8381		11.4	12.5	-8.6	20.0
2-Chloro-1,3-butadiene	Ave	0.3897	0.3596		11.5	12.5	-7.7	20.0
Ethyl t-butyl ether	Ave	0.8471	0.7822		11.5	12.5	-7.7	20.0
2-Butanone	Ave	5.255	4.444	0.1000	106	125	-15.4	20.0
cis-1,2-Dichloroethene	Ave	0.2969	0.2792	0.1000	11.8	12.5	-6.0	20.0
2,2-Dichloropropane	Ave	0.3940	0.3709		11.8	12.5	-5.9	20.0
Propionitrile	Ave	1.308	1.224		234	250	-6.4	20.0
Methacrylonitrile	Ave	5.552	4.686		106	125	-15.6	20.0
Bromochloromethane	Ave	0.1315	0.1267		12.0	12.5	-3.6	20.0
Tetrahydrofuran	Ave	1.489	1.310		55.0	62.5	-12.0	20.0
Chloroform	Ave	0.4701	0.4410	0.2000	11.7	12.5	-6.2	20.0
1,1,1-Trichloroethane	Ave	0.4109	0.3898	0.1000	11.9	12.5	-5.1	20.0
Cyclohexane	Ave	0.4623	0.4409	0.1000	11.9	12.5	-4.6	20.0
Carbon tetrachloride	Ave	0.3450	0.3456	0.1000	12.5	12.5	0.2	20.0
1,1-Dichloropropene	Ave	0.3841	0.3579		11.6	12.5	-6.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-292752/3 Calibration Date: 09/05/2022 10:50

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CS05X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Ave	0.3699	0.3370		569	625	-8.9	20.0
Benzene	Ave	1.151	1.074	0.5000	11.7	12.5	-6.7	20.0
1,2-Dichloroethane	Ave	0.2916	0.2676	0.1000	11.5	12.5	-8.2	20.0
t-Amyl methyl ether	Ave	0.7640	0.7198		11.8	12.5	-5.8	20.0
n-Heptane	Ave	0.4132	0.3981		12.0	12.5	-3.7	20.0
n-Butanol	Ave	0.2966	0.3305		1220	1090	11.4	20.0
Trichloroethene	Ave	0.2950	0.2794	0.2000	11.8	12.5	-5.3	20.0
Methylcyclohexane	Ave	0.4906	0.4814	0.1000	12.3	12.5	-1.9	20.0
1,2-Dichloropropane	Ave	0.3058	0.2827	0.1000	11.6	12.5	-7.5	20.0
1,4-Dioxane	Qua		0.0757	0.0050	687	625	10.0	20.0
Methyl methacrylate	Ave	10.12	9.063		11.2	12.5	-10.5	20.0
Dibromomethane	Ave	0.1364	0.1307		12.0	12.5	-4.2	20.0
Bromodichloromethane	Ave	0.3358	0.3294	0.2000	12.3	12.5	-1.9	20.0
2-Nitropropane	Ave	2.882	2.548		55.2	62.5	-11.6	20.0
1-Bromo-2-chloroethane	Ave	0.3050	0.2950		12.1	12.5	-3.3	20.0
cis-1,3-Dichloropropene	Ave	0.4402	0.4409	0.2000	12.5	12.5	0.2	20.0
4-Methyl-2-pentanone	Ave	14.22	12.08	0.1000	106	125	-15.1	20.0
Toluene	Ave	0.9723	0.9088	0.4000	11.7	12.5	-6.5	20.0
trans-1,3-Dichloropropene	Ave	0.4678	0.4741	0.1000	12.7	12.5	1.4	20.0
Ethyl methacrylate	Ave	0.3782	0.3795		12.5	12.5	0.3	20.0
1,1,2-Trichloroethane	Ave	0.2693	0.2549	0.1000	11.8	12.5	-5.3	20.0
Tetrachloroethene	Ave	0.4530	0.4348	0.2000	12.0	12.5	-4.0	20.0
1,3-Dichloropropane	Ave	0.4650	0.4381		11.8	12.5	-5.8	20.0
2-Hexanone	Ave	10.07	8.905	0.1000	111	125	-11.6	20.0
Dibromochloromethane	Ave	0.3217	0.3313		12.9	12.5	3.0	20.0
1,2-Dibromoethane	Ave	0.2534	0.2506	0.1000	12.4	12.5	-1.1	20.0
1-Chlorohexane	Ave	0.5542	0.5118		11.5	12.5	-7.6	20.0
Chlorobenzene	Ave	1.147	1.074	0.5000	11.7	12.5	-6.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3800	0.3736		12.3	12.5	-1.7	20.0
Ethylbenzene	Ave	1.891	1.825	0.1000	12.1	12.5	-3.5	20.0
m&p-Xylene	Ave	0.7579	0.7302	0.1000	24.1	25.0	-3.6	20.0
o-Xylene	Ave	0.7529	0.7246	0.3000	12.0	12.5	-3.8	20.0
Styrene	Ave	1.232	1.213	0.3000	12.3	12.5	-1.5	20.0
Bromoform	Ave	0.1877	0.2049	0.1000	13.6	12.5	9.2	20.0
Isopropylbenzene	Ave	1.913	1.856	0.1000	12.1	12.5	-3.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5912	0.5380	0.3000	11.4	12.5	-9.0	20.0
Bromobenzene	Ave	0.8315	0.7627		11.5	12.5	-8.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1428	0.1374		120	125	-3.8	20.0
1,2,3-Trichloropropane	Ave	0.1547	0.1408		11.4	12.5	-8.9	20.0
N-Propylbenzene	Ave	3.986	3.620		11.4	12.5	-9.2	20.0
2-Chlorotoluene	Ave	0.8351	0.7535		11.3	12.5	-9.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-292752/3 Calibration Date: 09/05/2022 10:50

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CS05X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.870	2.636		11.5	12.5	-8.2	20.0
4-Chlorotoluene	Ave	0.8567	0.7899		11.5	12.5	-7.8	20.0
tert-Butylbenzene	Ave	0.6329	0.6103		12.1	12.5	-3.6	20.0
Pentachloroethane	Ave	0.4781	0.4773		12.5	12.5	-0.2	20.0
1,2,4-Trimethylbenzene	Ave	2.981	2.769		11.6	12.5	-7.1	20.0
sec-Butylbenzene	Ave	3.648	3.413		11.7	12.5	-6.4	20.0
1,3-Dichlorobenzene	Ave	1.705	1.588	0.6000	11.6	12.5	-6.8	20.0
p-Isopropyltoluene	Ave	3.247	3.025		11.6	12.5	-6.8	20.0
1,4-Dichlorobenzene	Ave	1.741	1.605	0.5000	11.5	12.5	-7.8	20.0
1,2,3-Trimethylbenzene	Ave	1.359	1.233		11.3	12.5	-9.2	20.0
Benzyl chloride	Ave	0.2443	0.2602		13.3	12.5	6.5	20.0
n-Butylbenzene	Ave	1.636	1.538		11.7	12.5	-6.0	20.0
1,2-Dichlorobenzene	Ave	1.568	1.467	0.4000	11.7	12.5	-6.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0835	0.0854	0.0500	12.8	12.5	2.3	20.0
1,3,5-Trichlorobenzene	Ave	1.343	1.289		12.0	12.5	-4.0	20.0
1,2,4-Trichlorobenzene	Ave	1.132	1.104	0.2000	12.2	12.5	-2.5	20.0
Hexachlorobutadiene	Ave	0.5847	0.5633		12.0	12.5	-3.7	20.0
Naphthalene	Ave	1.801	1.797		12.5	12.5	-0.2	20.0
1,2,3-Trichlorobenzene	Ave	0.9122	0.8989		12.3	12.5	-1.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2337	0.2357		10.1	10.0	0.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0480	0.0486		10.1	10.0	1.2	20.0
Toluene-d8 (Surr)	Ave	1.318	1.312		9.96	10.0	-0.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4876	0.4950		10.2	10.0	1.5	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X02.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Sep-2022 10:50:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065639-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Sep-2022 12:39:22 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: DVW2 Date: 05-Sep-2022 12:28:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.751	1.751	0.000	99	613719	12.5	11.7	
5 Chloromethane	50	1.928	1.928	0.000	99	774109	12.5	11.1	
6 Vinyl chloride	62	2.032	2.032	0.000	98	740040	12.5	11.5	
7 Butadiene	39	2.044	2.044	0.000	91	864147	12.5	12.5	
9 Bromomethane	94	2.324	2.324	0.000	89	500297	12.5	11.7	
10 Chloroethane	64	2.391	2.391	0.000	100	417891	12.5	11.1	
11 Dichlorofluoromethane	67	2.605	2.605	0.000	97	990012	12.5	11.4	
12 Trichlorofluoromethane	101	2.666	2.666	0.000	96	902197	12.5	12.3	
13 Pentane	43	2.666	2.666	0.000	97	734919	12.5	11.3	
15 Ethyl ether	59	2.855	2.855	0.000	92	436051	12.5	11.6	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.952	2.952	0.000	92	660259	12.5	11.6	
17 Acrolein	56	3.007	3.007	0.000	100	2918534	625.0	468.7	
19 1,1-Dichloroethene	96	3.123	3.123	0.000	98	467476	12.5	11.5	
20 Acetone	43	3.153	3.153	0.000	100	734220	125.0	104.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.172	3.172	0.000	90	459389	12.5	12.0	
22 Iodomethane	142	3.294	3.294	0.000	97	868145	12.5	11.6	
23 Isopropyl alcohol	45	3.312	3.312	0.000	57	384947	250.0	249.2	
24 Ethyl bromide	108	3.318	3.318	0.000	98	454450	12.5	11.9	
25 Carbon disulfide	76	3.379	3.379	0.000	99	1479885	12.5	11.8	
27 Methyl acetate	43	3.519	3.519	0.000	97	224565	12.5	10.9	
28 3-Chloro-1-propene	41	3.531	3.531	0.000	93	849165	12.5	11.4	
29 Methylene Chloride	84	3.702	3.702	0.000	93	563708	12.5	11.7	
* 30 t-Butyl alcohol-d10 (IS)	65	3.745	3.745	0.000	88	135825	50.0	50.0	
31 2-Methyl-2-propanol	59	3.836	3.836	0.000	100	791968	250.0	279.8	
32 Acrylonitrile	53	4.013	4.013	0.000	98	281091	31.3	26.7	
33 Methyl tert-butyl ether	73	4.062	4.062	0.000	93	1453103	12.5	11.8	
34 trans-1,2-Dichloroethene	96	4.062	4.062	0.000	99	579391	12.5	11.6	
35 Hexane	57	4.464	4.464	0.000	92	789833	12.5	11.8	
36 1,1-Dichloroethane	63	4.708	4.708	0.000	96	1063704	12.5	11.6	
38 Isopropyl ether	45	4.769	4.769	0.000	95	1930469	12.5	11.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.818	4.818	0.000	90	828302	12.5	11.5	
40 Tert-butyl ethyl ether	59	5.324	5.324	0.000	97	1801738	12.5	11.5	
41 2-Butanone (MEK)	43	5.537	5.537	0.000	100	1508998	125.0	105.7	
42 cis-1,2-Dichloroethene	96	5.562	5.562	0.000	83	643064	12.5	11.8	
43 2,2-Dichloropropane	77	5.568	5.568	0.000	88	854404	12.5	11.8	
45 Propionitrile	54	5.641	5.641	0.000	99	831280	250.0	234.0	
46 Methacrylonitrile	67	5.854	5.854	0.000	92	1591303	125.0	105.5	
47 Chlorobromomethane	128	5.903	5.903	0.000	95	291944	12.5	12.0	
48 Tetrahydrofuran	71	5.909	5.909	0.000	87	222432	62.5	55.0	
50 Chloroform	83	6.061	6.061	0.000	93	1015860	12.5	11.7	
52 1,1,1-Trichloroethane	97	6.281	6.281	0.000	98	897987	12.5	11.9	
$ 53 Dibromofluoromethane (Surr)	113	6.281	6.281	0.000	91	434292	10.0	10.1	
54 Cyclohexane	56	6.378	6.378	0.000	90	1015601	12.5	11.9	
55 Carbon tetrachloride	117	6.488	6.488	0.000	96	795963	12.5	12.5	
56 1,1-Dichloropropene	75	6.500	6.500	0.000	98	824355	12.5	11.6	
57 Isobutyl alcohol	41	6.708	6.708	0.000	95	572202	625.0	569.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.744	6.744	0.000	92	89609	10.0	10.1	
59 Benzene	78	6.769	6.769	0.000	96	2473381	12.5	11.7	
61 1,2-Dichloroethane	62	6.848	6.848	0.000	97	616324	12.5	11.5	
63 Tert-amyl methyl ether	73	6.976	6.976	0.000	99	1658063	12.5	11.8	
* 64 Fluorobenzene (IS)	96	7.189	7.189	0.000	99	1842742	10.0	10.0	
65 n-Heptane	43	7.201	7.201	0.000	92	916981	12.5	12.0	
66 n-Butanol	56	7.610	7.610	0.000	88	982012	1093.8	1218.8	
67 Trichloroethene	95	7.677	7.677	0.000	97	643505	12.5	11.8	
68 Methylcyclohexane	83	7.976	7.976	0.000	90	1108926	12.5	12.3	
69 1,2-Dichloropropane	63	8.012	8.012	0.000	98	651270	12.5	11.6	
70 2-ethoxy-2-methyl butane	87	8.037	8.037	0.000	93	980689	12.5	11.9	
72 1,4-Dioxane	88	8.116	8.116	0.000	34	128466	625.0	687.4	
71 Methyl methacrylate	69	8.122	8.122	0.000	92	307761	12.5	11.2	
73 Dibromomethane	93	8.128	8.128	0.000	93	300960	12.5	12.0	
75 Dichlorobromomethane	83	8.372	8.372	0.000	100	758774	12.5	12.3	
76 2-Nitropropane	41	8.658	8.658	0.000	98	432590	62.5	55.2	
78 1-Bromo-2-chloroethane	63	8.768	8.768	0.000	98	679540	12.5	12.1	
79 cis-1,3-Dichloropropene	75	8.945	8.945	0.000	97	1015583	12.5	12.5	
81 4-Methyl-2-pentanone (MIBK)	43	9.152	9.152	0.000	96	4100349	125.0	106.2	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	1902402	10.0	9.96	
83 Toluene	92	9.360	9.360	0.000	98	1647003	12.5	11.7	
84 trans-1,3-Dichloropropene	75	9.658	9.658	0.000	92	859324	12.5	12.7	
85 Ethyl methacrylate	69	9.731	9.731	0.000	89	687706	12.5	12.5	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	462043	12.5	11.8	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	787959	12.5	12.0	
102 1,3-Dichloropropane	76	10.042	10.042	0.000	90	793999	12.5	11.8	
104 2-Hexanone	43	10.109	10.109	0.000	96	3023720	125.0	110.5	
106 Chlorodibromomethane	129	10.262	10.262	0.000	90	600460	12.5	12.9	
107 Ethylene Dibromide	107	10.378	10.378	0.000	98	454096	12.5	12.4	
* 108 Chlorobenzene-d5 (IS)	117	10.829	10.829	0.000	84	1449884	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	927624	12.5	11.5	
110 Chlorobenzene	112	10.859	10.859	0.000	97	1945670	12.5	11.7	
111 1,1,1,2-Tetrachloroethane	131	10.945	10.945	0.000	97	677105	12.5	12.3	
112 Ethylbenzene	91	10.951	10.951	0.000	98	3308243	12.5	12.1	
113 m-Xylene & p-Xylene	106	11.073	11.073	0.000	100	2646788	25.0	24.1	
115 o-Xylene	106	11.414	11.414	0.000	96	1313235	12.5	12.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 Styrene	104	11.432	11.432	0.000	95	2198989	12.5	12.3	
117 Bromoform	173	11.585	11.585	0.000	98	371261	12.5	13.6	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	3364578	12.5	12.1	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	94	717661	10.0	10.2	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	92	599635	12.5	11.4	
122 Bromobenzene	156	11.987	11.987	0.000	93	850009	12.5	11.5	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	91	1531553	125.0	120.3	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	80	156950	12.5	11.4	
126 N-Propylbenzene	91	12.066	12.066	0.000	99	4034467	12.5	11.4	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	839809	12.5	11.3	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	2937618	12.5	11.5	
129 4-Chlorotoluene	126	12.231	12.231	0.000	97	880280	12.5	11.5	
130 tert-Butylbenzene	134	12.450	12.450	0.000	93	680216	12.5	12.1	
131 Pentachloroethane	167	12.481	12.481	0.000	95	531891	12.5	12.5	
132 1,2,4-Trimethylbenzene	105	12.493	12.493	0.000	97	3085435	12.5	11.6	
133 sec-Butylbenzene	105	12.615	12.615	0.000	94	3803571	12.5	11.7	
134 1,3-Dichlorobenzene	146	12.713	12.713	0.000	98	1769623	12.5	11.6	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	3371558	12.5	11.6	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	92	891578	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	95	1788246	12.5	11.5	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	1374595	12.5	11.3	
139 Benzyl chloride	126	12.871	12.871	0.000	98	290024	12.5	13.3	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	1713540	12.5	11.7	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	1635180	12.5	11.7	
142 p-Diethylbenzene	119	13.078	13.078	0.000	86	1699300	12.5	11.5	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	90	95156	12.5	12.8	
146 1,3,5-Trichlorobenzene	180	13.731	13.731	0.000	98	1436099	12.5	12.0	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	1230179	12.5	12.2	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	96	627752	12.5	12.0	
149 Naphthalene	128	14.340	14.340	0.000	96	2002878	12.5	12.5	
150 1,2,3-Trichlorobenzene	180	14.487	14.487	0.000	96	1001752	12.5	12.3	
151 2-Methylnaphthalene	142	15.090	15.090	0.000	92	1012064	12.5	13.4	

QC Flag Legend

Processing Flags

Reagents:

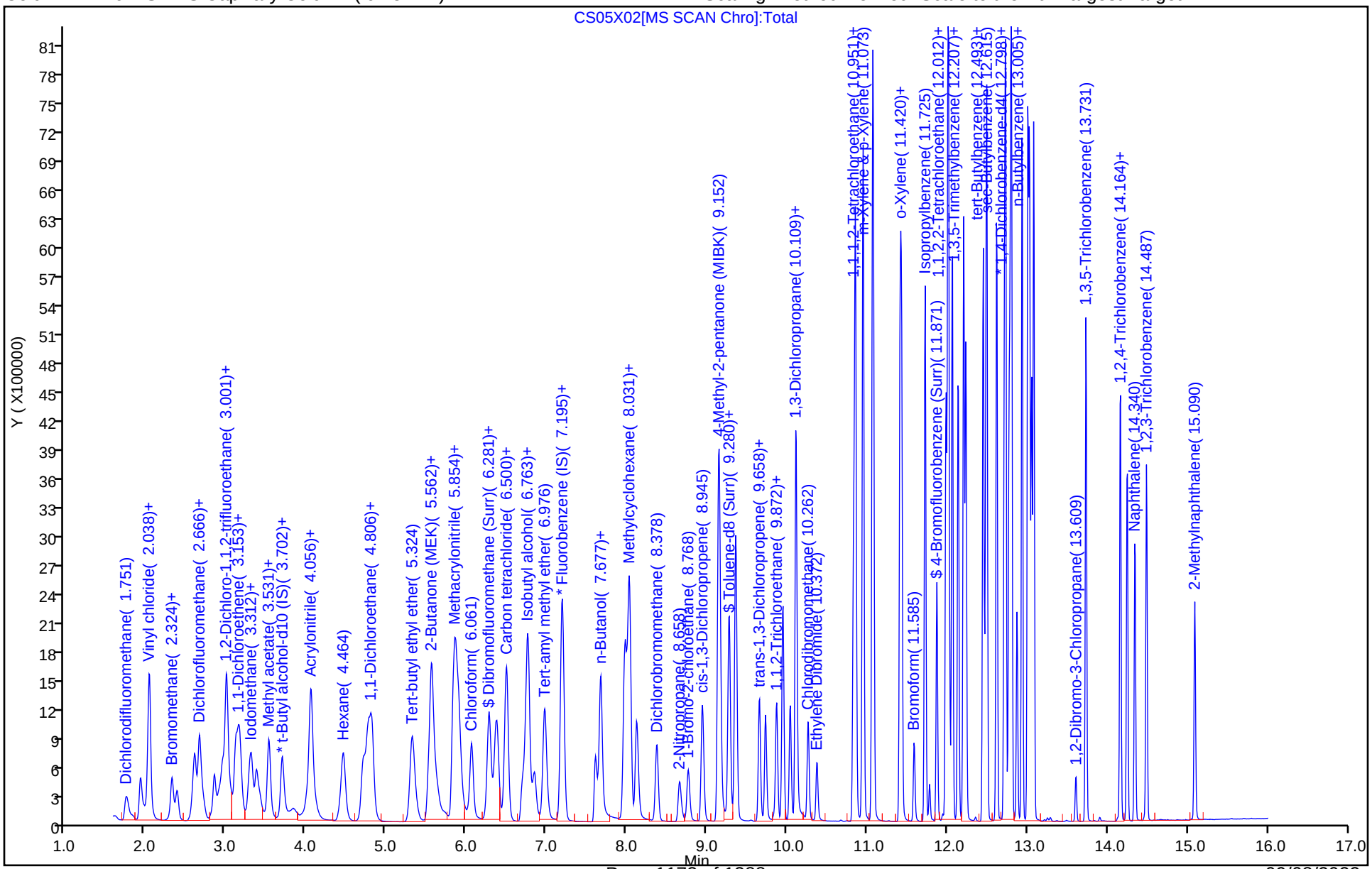
MSV_LL_#2_826_00057	Amount Added: 25.00	Units: uL	
MSV_LL_#1_826_00052	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00110	Amount Added: 25.00	Units: uL	
MSV_HP25_ISSS_00057	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 05-Sep-2022 12:39:23 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X02.D				
Injection Date:	05-Sep-2022 10:50:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	CCVIS VSTD12.5			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: ICV 410-286414/21 Calibration Date: 08/16/2022 20:22

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GG16X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2596	0.2619	0.1000	5.04	5.00	0.9	30.0
Chloromethane	Ave	0.2928	0.2624	0.1000	4.48	5.00	-10.4	30.0
Vinyl chloride	Ave	0.2992	0.2820	0.1000	4.71	5.00	-5.8	30.0
1,3-Butadiene	Ave	0.2845	0.2407		4.23	5.00	-15.4	30.0
Bromomethane	Ave	0.2361	0.2205	0.1000	4.67	5.00	-6.6	30.0
Chloroethane	Ave	0.1784	0.1689	0.1000	4.73	5.00	-5.3	30.0
Dichlorofluoromethane	Ave	0.4362	0.4183		4.79	5.00	-4.1	30.0
Trichlorofluoromethane	Ave	0.4114	0.3973	0.1000	4.83	5.00	-3.4	30.0
Pentane	None					5.00		30.0
Ethyl ether	Ave	0.1909	0.1892		4.94	4.98	-0.9	30.0
Freon 123a	Ave	0.2906	0.2656		4.57	5.00	-8.6	30.0
Acrolein	Ave	2.311	2.358		38.2	37.5	2.0	30.0
1,1-Dichloroethene	Ave	0.2154	0.2171	0.1000	5.04	5.00	0.8	30.0
Acetone	Ave	2.535	2.365	0.1000	58.3	62.5	-6.7	30.0
Freon 113	Ave	0.2100	0.2267	0.1000	5.40	5.00	8.0	30.0
Methyl iodide	Ave	0.4078	0.4238		5.20	5.00	3.9	30.0
Ethyl bromide	Ave	0.1978	0.1727		4.27	4.89	-12.7	30.0
Carbon disulfide	Ave	0.5255	0.6002	0.1000	5.71	5.00	14.2	30.0
Methyl acetate	Ave	7.861	7.210	0.1000	4.59	5.00	-8.3	30.0
Allyl chloride	Ave	0.2907	0.2968		5.10	5.00	2.1	30.0
Methylene Chloride	Ave	0.2387	0.2326	0.1000	4.87	5.00	-2.5	30.0
t-Butyl alcohol	Ave	0.8863	0.8949		50.5	50.0	1.0	30.0
Acrylonitrile	Ave	3.363	3.691		27.4	25.0	9.8	30.0
Methyl tertiary butyl ether	Ave	0.6147	0.6020	0.1000	4.90	5.00	-2.1	30.0
trans-1,2-Dichloroethene	Ave	0.2516	0.2404	0.1000	4.78	5.00	-4.5	30.0
n-Hexane	Ave	0.2746	0.2771		5.05	5.00	0.9	30.0
1,1-Dichloroethane	Ave	0.4087	0.3886	0.2000	4.75	5.00	-4.9	30.0
di-Isopropyl ether	Ave	0.6761	0.6647		4.92	5.00	-1.7	30.0
2-Chloro-1,3-butadiene	Ave	0.3253	0.3376		5.19	5.00	3.8	30.0
Ethyl t-butyl ether	Ave	0.6956	0.7019		5.04	5.00	0.9	30.0
2-Butanone	Ave	5.008	5.156	0.1000	64.4	62.5	3.0	30.0
cis-1,2-Dichloroethene	Ave	0.2749	0.2751	0.1000	5.00	5.00	0.0	30.0
2,2-Dichloropropane	Ave	0.3306	0.3330		5.04	5.00	0.7	30.0
Propionitrile	Ave	1.187	1.133		35.8	37.5	-4.5	30.0
Methacrylonitrile	Ave	5.343	5.541		38.9	37.5	3.7	30.0
Bromochloromethane	Ave	0.1317	0.1318		5.00	5.00	0.0	30.0
Tetrahydrofuran	Ave	1.487	1.599		26.9	25.0	7.6	30.0
Chloroform	Ave	0.4380	0.4236	0.2000	4.84	5.00	-3.3	30.0
1,1,1-Trichloroethane	Ave	0.3821	0.3761	0.1000	4.92	5.00	-1.6	30.0
Cyclohexane	Ave	0.3475	0.3480	0.1000	5.01	5.00	0.2	30.0
1,1-Dichloropropene	Ave	0.3396	0.3298		4.86	5.00	-2.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: ICV 410-286414/21 Calibration Date: 08/16/2022 20:22

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GG16X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3289	0.3311	0.1000	5.03	5.00	0.7	30.0
Isobutyl alcohol	Ave	0.0036	0.0034		118	125	-5.6	30.0
Benzene	Ave	1.002	0.9679	0.5000	4.83	5.00	-3.4	30.0
1,2-Dichloroethane	Ave	0.2855	0.2659	0.1000	4.66	5.00	-6.9	30.0
t-Amyl methyl ether	Ave	0.6594	0.6520		4.94	5.00	-1.1	30.0
n-Heptane	Ave	0.2871	0.2886		5.03	5.00	0.5	30.0
n-Butanol	Ave	0.2586	0.2738		265	250	5.9	30.0
Trichloroethene	Ave	0.2796	0.2693	0.2000	4.82	5.00	-3.7	30.0
Methylcyclohexane	Ave	0.4162	0.4253	0.1000	5.11	5.00	2.2	30.0
1,2-Dichloropropane	Ave	0.2449	0.2364	0.1000	4.83	5.00	-3.5	30.0
Methyl methacrylate	Ave	10.41	10.96		5.27	5.00	5.3	30.0
Dibromomethane	Ave	0.1344	0.1307		4.86	5.00	-2.8	30.0
1,4-Dioxane	Lin2		0.0557	0.0050	126	125	0.6	30.0
Bromodichloromethane	Ave	0.2943	0.2974	0.2000	5.05	5.00	1.1	30.0
2-Nitropropane	Ave	2.340	2.234		4.77	5.00	-4.5	30.0
1-Bromo-2-chloroethane	Ave	0.2652	0.2581		4.87	5.00	-2.7	30.0
cis-1,3-Dichloropropene	Ave	0.3671	0.3656	0.2000	4.98	5.00	-0.4	30.0
4-Methyl-2-pentanone	Ave	13.18	13.65	0.1000	64.7	62.5	3.6	30.0
Toluene	Ave	0.8674	0.8290	0.4000	4.78	5.00	-4.4	30.0
trans-1,3-Dichloropropene	Ave	0.3864	0.4020	0.1000	5.20	5.00	4.0	30.0
Ethyl methacrylate	Ave	0.3328	0.3458		5.19	5.00	3.9	30.0
1,1,2-Trichloroethane	Ave	0.2551	0.2462	0.1000	4.83	5.00	-3.5	30.0
Tetrachloroethene	Ave	0.4369	0.4251	0.2000	4.87	5.00	-2.7	30.0
1,3-Dichloropropane	Ave	0.4185	0.4041		4.83	5.00	-3.4	30.0
2-Hexanone	Ave	9.609	10.34	0.1000	67.2	62.5	7.6	30.0
Dibromochloromethane	Ave	0.2790	0.2904		5.20	5.00	4.1	30.0
1,2-Dibromoethane	Ave	0.2511	0.2447	0.1000	4.87	5.00	-2.6	30.0
1-Chlorohexane	Ave	0.4862	0.4615		4.75	5.00	-5.1	30.0
Chlorobenzene	Ave	1.050	0.996	0.5000	4.75	5.00	-5.1	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3370	0.3374		5.01	5.00	0.1	30.0
Ethylbenzene	Ave	1.682	1.628	0.1000	4.84	5.00	-3.2	30.0
m&p-Xylene	Ave	0.6759	0.6591	0.1000	9.75	10.0	-2.5	30.0
o-Xylene	Ave	0.6696	0.6479	0.3000	4.84	5.00	-3.2	30.0
Styrene	Ave	1.134	1.107	0.3000	4.88	5.00	-2.4	30.0
Bromoform	Ave	0.1570	0.1703	0.1000	5.42	5.00	8.4	30.0
Isopropylbenzene	Ave	1.712	1.696	0.1000	4.95	5.00	-0.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5342	0.5202	0.3000	4.87	5.00	-2.6	30.0
Bromobenzene	Ave	0.7697	0.7509		4.88	5.00	-2.4	30.0
trans-1,4-Dichloro-2-butene	Ave	4.847	5.279		27.2	25.0	8.9	30.0
1,2,3-Trichloropropane	Ave	0.1534	0.1490		4.86	5.00	-2.9	30.0
N-Propylbenzene	Ave	3.363	3.241		4.82	5.00	-3.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: ICV 410-286414/21 Calibration Date: 08/16/2022 20:22

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GG16X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.7395	0.7057		4.77	5.00	-4.6	30.0
1,3,5-Trimethylbenzene	Ave	2.519	2.430		4.82	5.00	-3.5	30.0
4-Chlorotoluene	Ave	0.7729	0.7353		4.76	5.00	-4.9	30.0
tert-Butylbenzene	Ave	0.5805	0.5420		4.67	5.00	-6.6	30.0
Pentachloroethane	Ave	0.4154	0.4496		5.41	5.00	8.2	30.0
1,2,4-Trimethylbenzene	Ave	2.595	2.516		4.85	5.00	-3.0	30.0
sec-Butylbenzene	Ave	3.159	3.154		4.99	5.00	-0.2	30.0
1,3-Dichlorobenzene	Ave	1.590	1.493	0.6000	4.70	5.00	-6.1	30.0
p-Isopropyltoluene	Ave	2.881	2.837		4.92	5.00	-1.5	30.0
1,4-Dichlorobenzene	Ave	1.664	1.537	0.5000	4.62	5.00	-7.7	30.0
1,2,3-Trimethylbenzene	Ave	1.191	1.149		4.82	5.00	-3.5	30.0
Benzyl chloride	Lin1		0.1805		4.40	5.00	-12.0	30.0
n-Butylbenzene	Ave	1.407	1.346		4.78	5.00	-4.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.397	0.4000	4.68	5.00	-6.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0787	0.0768	0.0500	4.88	5.00	-2.4	30.0
1,3,5-Trichlorobenzene	Ave	1.282	1.230		4.80	5.00	-4.0	30.0
1,2,4-Trichlorobenzene	Ave	1.202	1.122	0.2000	4.67	5.00	-6.6	30.0
Hexachlorobutadiene	Ave	0.5695	0.5612		4.93	5.00	-1.5	30.0
Naphthalene	Ave	2.034	1.907		4.69	5.00	-6.2	30.0
1,2,3-Trichlorobenzene	Ave	1.062	1.001		4.71	5.00	-5.8	30.0
Dibromofluoromethane (Surr)	Ave	0.2483	0.2512		10.1	10.0	1.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0527	0.0526		9.98	10.0	-0.2	30.0
Toluene-d8 (Surr)	Ave	1.281	1.282		10.0	10.0	0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4767	0.4785		10.0	10.0	0.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X20.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 16-Aug-2022 20:22:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-021
Misc. Info.: ICV
Operator ID: knk41612 Instrument ID: 16334
Sublist:

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:58:17 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:50:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.892	1.892	0.000	99	307761	5.00	5.04	
5 Chloromethane	50	2.087	2.087	0.000	99	308422	5.00	4.48	
6 Vinyl chloride	62	2.203	2.202	0.001	98	331418	5.00	4.71	
7 Butadiene	39	2.209	2.215	-0.006	93	282851	5.00	4.23	
9 Bromomethane	94	2.520	2.526	-0.006	90	259137	5.00	4.67	
10 Chloroethane	64	2.599	2.599	0.000	99	198479	5.00	4.73	
11 Dichlorofluoromethane	67	2.837	2.836	0.001	97	491576	5.00	4.79	
12 Trichlorofluoromethane	101	2.898	2.904	-0.006	96	466899	5.00	4.83	
13 Ethyl ether	59	3.123	3.123	0.000	89	221726	4.98	4.94	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.215	3.221	-0.006	90	312094	5.00	4.57	
17 Acrolein	56	3.294	3.288	0.006	99	234718	37.5	38.2	
18 1,1-Dichloroethene	96	3.416	3.416	0.000	97	255181	5.00	5.04	
20 Acetone	43	3.465	3.458	0.007	85	392587	62.5	58.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.464	0.001	91	266412	5.00	5.40	
21 Iodomethane	142	3.599	3.605	-0.006	98	498058	5.00	5.20	
22 Ethyl bromide	108	3.635	3.629	0.006	98	198307	4.89	4.27	
24 Isopropyl alcohol	45	3.690	3.690	0.000	30	44454	37.5	34.2	
23 Carbon disulfide	76	3.702	3.702	0.000	99	705397	5.00	5.71	
25 Methyl acetate	43	3.861	3.855	0.006	40	95732	5.00	4.59	
27 3-Chloro-1-propene	41	3.873	3.873	0.000	91	348751	5.00	5.10	
29 Methylene Chloride	84	4.056	4.056	0.000	88	273356	5.00	4.87	
* 30 t-Butyl alcohol-d10 (IS)	65	4.123	4.111	0.012	59	132771	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.245	4.245	0.000	99	118811	50.0	50.5	
32 Acrylonitrile	53	4.403	4.391	0.012	98	245044	25.0	27.4	
33 Methyl tert-butyl ether	73	4.446	4.446	0.000	89	707491	5.00	4.90	
34 trans-1,2-Dichloroethene	96	4.458	4.458	0.000	97	282507	5.00	4.78	
35 Hexane	57	4.885	4.885	0.000	92	325649	5.00	5.05	
37 1,1-Dichloroethane	63	5.123	5.123	0.000	96	456730	5.00	4.75	
38 Isopropyl ether	45	5.190	5.184	0.006	93	781214	5.00	4.92	
39 2-Chloro-1,3-butadiene	53	5.233	5.232	0.001	90	396778	5.00	5.19	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	97	824842	5.00	5.04	
41 2-Butanone (MEK)	43	5.934	5.933	0.001	99	855767	62.5	64.4	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	80	323301	5.00	5.00	
43 2,2-Dichloropropane	77	5.982	5.976	0.006	86	391351	5.00	5.04	
45 Propionitrile	54	6.037	6.025	0.012	99	112818	37.5	35.8	
48 Methacrylonitrile	67	6.232	6.238	-0.006	90	551714	37.5	38.9	
49 Chlorobromomethane	128	6.293	6.293	0.000	86	154844	5.00	5.00	
50 Tetrahydrofuran	71	6.306	6.299	0.007	85	106182	25.0	26.9	
51 Chloroform	83	6.446	6.452	-0.006	93	497805	5.00	4.84	
$ 52 Dibromofluoromethane (Surr)	113	6.665	6.665	0.000	94	590378	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.677	6.671	0.006	98	442027	5.00	4.92	
54 Cyclohexane	56	6.769	6.769	0.000	88	409009	5.00	5.01	
56 Carbon tetrachloride	117	6.885	6.884	0.001	97	389158	5.00	5.03	
57 1,1-Dichloropropene	75	6.885	6.891	-0.006	96	387591	5.00	4.86	
58 Isobutyl alcohol	41	7.086	7.073	0.013	91	99512	125.0	118.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.116	7.116	0.000	94	123699	10.0	9.98	
60 Benzene	78	7.147	7.153	-0.006	96	1137519	5.00	4.83	
61 1,2-Dichloroethane	62	7.220	7.220	0.000	98	312510	5.00	4.66	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	766290	5.00	4.94	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2350459	10.0	10.0	
65 n-Heptane	43	7.574	7.573	0.001	90	339225	5.00	5.03	
67 n-Butanol	56	7.976	7.970	0.006	87	181781	250.0	264.7	
68 Trichloroethene	95	8.037	8.043	-0.006	96	316512	5.00	4.82	
69 Methylcyclohexane	83	8.342	8.341	0.001	91	499858	5.00	5.11	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	91	277833	5.00	4.83	
71 2-ethoxy-2-methyl butane	87	8.384	8.390	-0.006	95	458374	5.00	4.97	
72 Methyl methacrylate	69	8.464	8.463	0.001	88	145562	5.00	5.27	
73 Dibromomethane	93	8.482	8.482	0.000	93	153569	5.00	4.86	
74 1,4-Dioxane	88	8.519	8.512	0.007	75	18487	125.0	125.7	M
76 Dichlorobromomethane	83	8.720	8.726	-0.006	99	349554	5.00	5.05	
77 2-Nitropropane	41	9.000	9.000	0.000	99	29662	5.00	4.77	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	303348	5.00	4.87	
81 cis-1,3-Dichloropropene	75	9.281	9.280	0.001	97	429717	5.00	4.98	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	2265574	62.5	64.7	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	93	2385812	10.0	10.0	
84 Toluene	92	9.671	9.671	0.001	98	771618	5.00	4.78	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	374183	5.00	5.20	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	321821	5.00	5.19	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	91	229187	5.00	4.83	
107 Tetrachloroethene	166	10.232	10.231	0.001	97	395687	5.00	4.87	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	376142	5.00	4.83	
109 2-Hexanone	43	10.366	10.365	0.001	95	1715735	62.5	67.2	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	270329	5.00	5.20	
112 Ethylene Dibromide	107	10.634	10.634	0.000	98	227735	5.00	4.87	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1861581	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	94	429543	5.00	4.75	
115 Chlorobenzene	112	11.097	11.097	0.000	96	927506	5.00	4.75	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	95	314073	5.00	5.01	
116 Ethylbenzene	91	11.189	11.189	0.001	98	1515158	5.00	4.84	
119 m-Xylene & p-Xylene	106	11.305	11.304	0.001	100	1227054	10.0	9.75	
120 o-Xylene	106	11.634	11.634	0.000	96	603021	5.00	4.84	
121 Styrene	104	11.652	11.652	0.000	94	1030067	5.00	4.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromoform	173	11.804	11.804	0.000	98	158473	5.00	5.42	
123 Isopropylbenzene	105	11.939	11.938	0.001	95	1578173	5.00	4.95	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	890713	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.188	-0.006	94	288804	5.00	4.87	
128 Bromobenzene	156	12.195	12.194	0.001	94	416846	5.00	4.88	
129 trans-1,4-Dichloro-2-butene	53	12.207	12.213	-0.006	93	350468	25.0	27.2	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	83	82700	5.00	4.86	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	1799402	5.00	4.82	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	391783	5.00	4.77	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	1349009	5.00	4.82	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	408191	5.00	4.76	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	300913	5.00	4.67	
136 Pentachloroethane	167	12.676	12.676	0.000	91	249612	5.00	5.41	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	1396929	5.00	4.85	
138 sec-Butylbenzene	105	12.810	12.810	0.000	93	1750858	5.00	4.99	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	828712	5.00	4.70	
140 4-Isopropyltoluene	119	12.914	12.920	-0.006	97	1574703	5.00	4.92	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1110282	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	95	853063	5.00	4.62	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	637988	5.00	4.82	
144 Benzyl chloride	126	13.060	13.060	0.000	98	100226	5.00	4.40	
145 p-Diethylbenzene	119	13.115	13.121	-0.006	92	933769	5.00	4.91	
146 n-Butylbenzene	92	13.207	13.206	0.001	97	747142	5.00	4.78	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	775495	5.00	4.68	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	90	42627	5.00	4.88	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	682932	5.00	4.80	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	623059	5.00	4.67	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	311571	5.00	4.93	
153 Naphthalene	128	14.511	14.511	0.000	97	1058669	5.00	4.69	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	555591	5.00	4.71	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	92	704869	5.00	4.84	
166 Pentane	43	2.916	2.916	0.000	97	356365	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_Penta_00018	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00068	Amount Added:	12.50	Units: uL	
LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00095	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00071	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

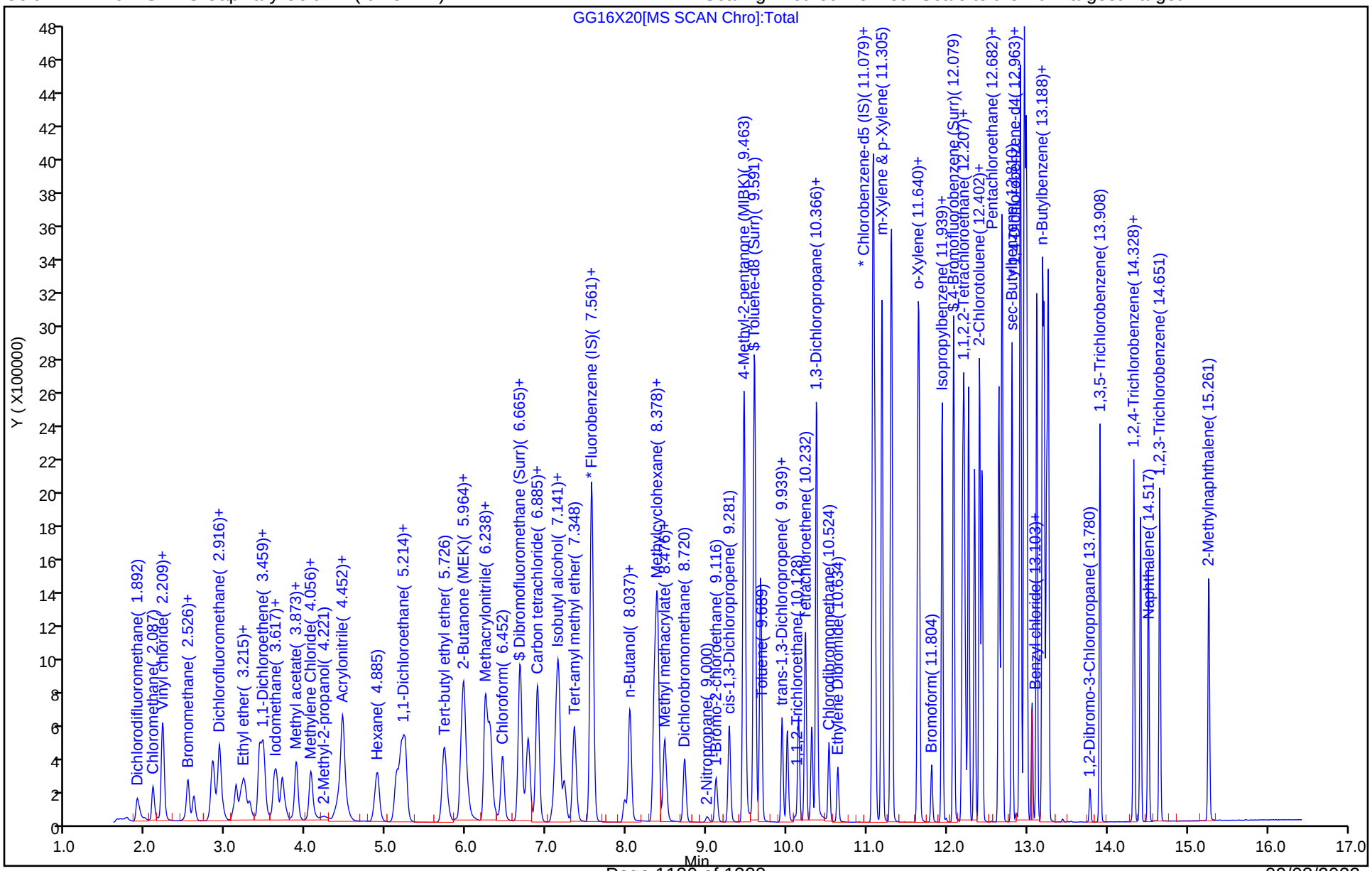
Report Date: 30-Aug-2022 10:58:22 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X20.D

Injection Date:	16-Aug-2022 20:22:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	ICV			Worklist Smp#:	21
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

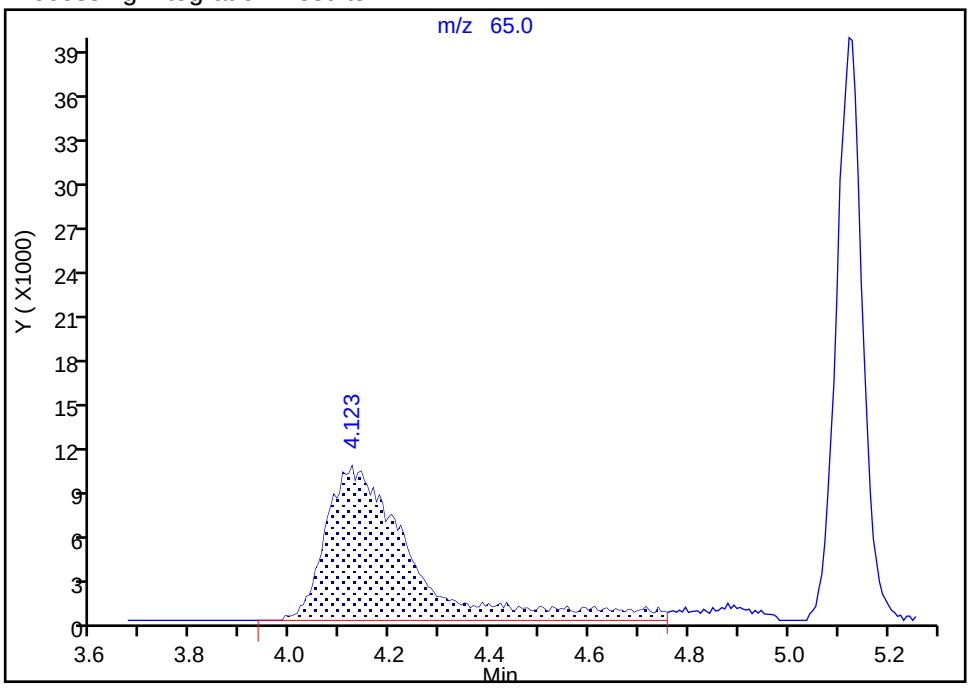
Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X20.D
Injection Date: 16-Aug-2022 20:22:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

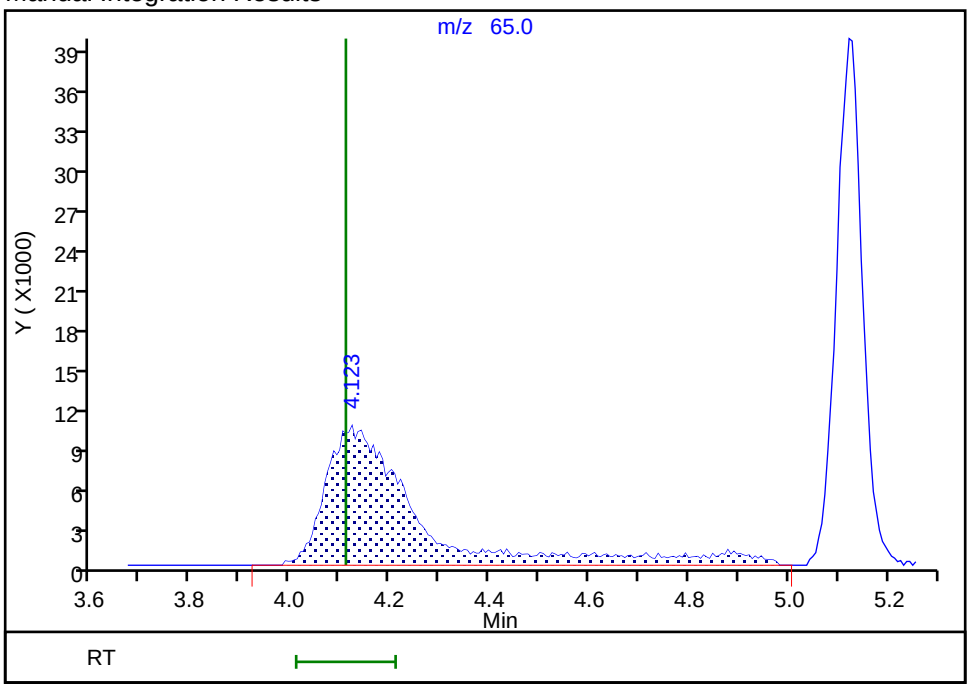
Processing Integration Results

RT: 4.12
Area: 124171
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.12
Area: 132771
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:46:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

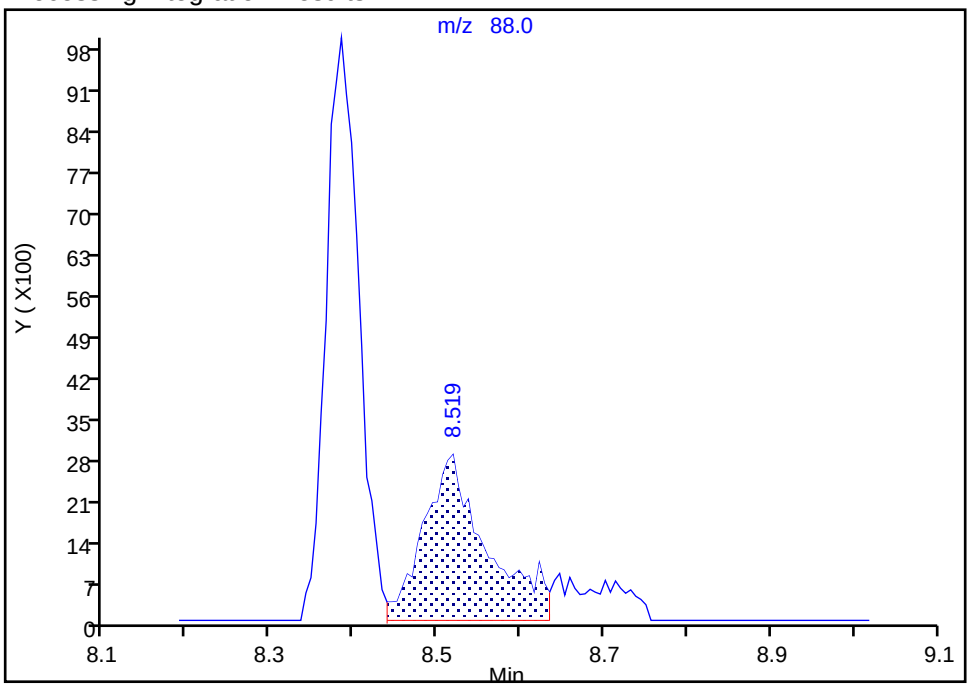
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X20.D				
Injection Date:	16-Aug-2022 20:22:30	Instrument ID:	16334		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

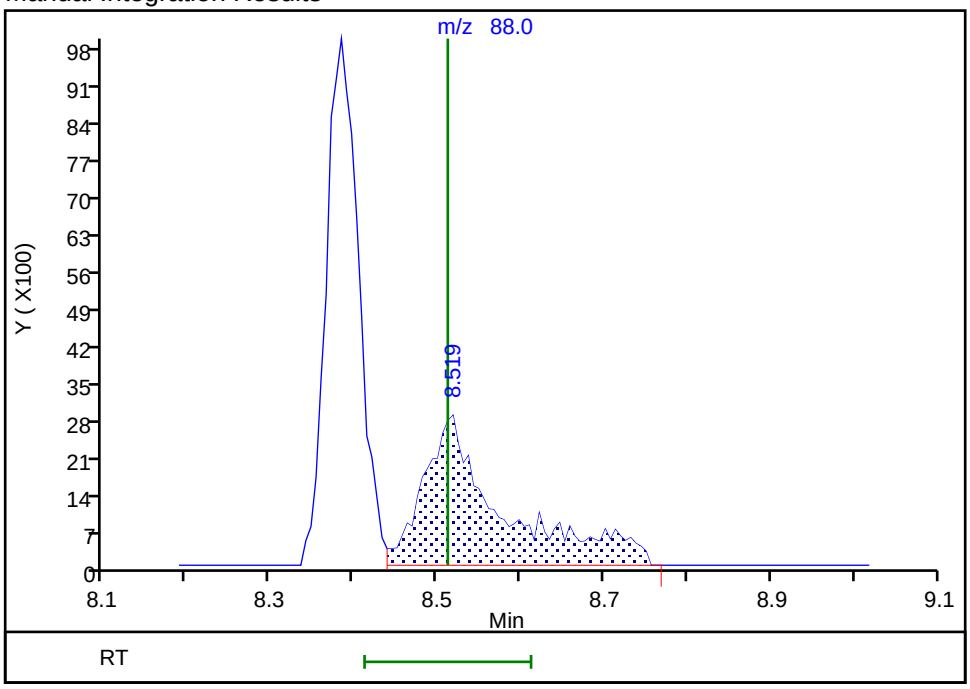
Processing Integration Results

RT: 8.52
Area: 14846
Amount: 119.7668
Amount Units: ug/l



Manual Integration Results

RT: 8.52
Area: 18487
Amount: 125.7160
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:46:59

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-292755/3 Calibration Date: 09/05/2022 10:37

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GS05X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2596	0.2776	0.1000	10.7	10.0	7.0	20.0
Chloromethane	Ave	0.2928	0.3007	0.1000	10.3	10.0	2.7	20.0
Vinyl chloride	Ave	0.2992	0.3172	0.1000	10.6	10.0	6.0	20.0
1,3-Butadiene	Ave	0.2845	0.2541		8.93	10.0	-10.7	20.0
Bromomethane	Ave	0.2361	0.2487	0.1000	10.5	10.0	5.3	20.0
Chloroethane	Ave	0.1784	0.1840	0.1000	10.3	10.0	3.1	20.0
Dichlorofluoromethane	Ave	0.4362	0.4581		10.5	10.0	5.0	20.0
Trichlorofluoromethane	Ave	0.4114	0.4509	0.1000	11.0	10.0	9.6	20.0
Pentane	None					10.0		20.0
Ethyl ether	Ave	0.1909	0.1870		9.80	10.0	-2.1	20.0
Freon 123a	Ave	0.2906	0.2980		10.3	10.0	2.6	20.0
Acrolein	Ave	2.311	2.233		483	500	-3.4	20.0
1,1-Dichloroethene	Ave	0.2154	0.2072	0.1000	9.62	10.0	-3.8	20.0
Freon 113	Ave	0.2100	0.2121	0.1000	10.1	10.0	1.0	20.0
Acetone	Ave	2.535	2.254	0.1000	88.9	100	-11.1	20.0
Methyl iodide	Ave	0.4078	0.3974		9.74	10.0	-2.6	20.0
Ethyl bromide	Ave	0.1978	0.1950		9.86	10.0	-1.4	20.0
Carbon disulfide	Ave	0.5255	0.5548	0.1000	10.6	10.0	5.6	20.0
Methyl acetate	Ave	7.861	7.525	0.1000	9.57	10.0	-4.3	20.0
Allyl chloride	Ave	0.2907	0.2947		10.1	10.0	1.4	20.0
Methylene Chloride	Ave	0.2387	0.2415	0.1000	10.1	10.0	1.2	20.0
t-Butyl alcohol	Ave	0.8863	0.7423		168	200	-16.2	20.0
Acrylonitrile	Ave	3.363	3.613		26.9	25.0	7.5	20.0
Methyl tertiary butyl ether	Ave	0.6147	0.6371	0.1000	10.4	10.0	3.6	20.0
trans-1,2-Dichloroethene	Ave	0.2516	0.2529	0.1000	10.1	10.0	0.5	20.0
n-Hexane	Ave	0.2746	0.2876		10.5	10.0	4.7	20.0
1,1-Dichloroethane	Ave	0.4087	0.4214	0.2000	10.3	10.0	3.1	20.0
di-Isopropyl ether	Ave	0.6761	0.6969		10.3	10.0	3.1	20.0
2-Chloro-1,3-butadiene	Ave	0.3253	0.3373		10.4	10.0	3.7	20.0
Ethyl t-butyl ether	Ave	0.6956	0.7151		10.3	10.0	2.8	20.0
2-Butanone	Ave	5.008	5.103	0.1000	102	100	1.9	20.0
cis-1,2-Dichloroethene	Ave	0.2749	0.2831	0.1000	10.3	10.0	3.0	20.0
2,2-Dichloropropane	Ave	0.3306	0.3655		11.1	10.0	10.6	20.0
Propionitrile	Ave	1.187	1.354		228	200	14.1	20.0
Methacrylonitrile	Ave	5.343	5.684		106	100	6.4	20.0
Bromochloromethane	Ave	0.1317	0.1415		10.7	10.0	7.4	20.0
Tetrahydrofuran	Ave	1.487	1.558		52.4	50.0	4.8	20.0
Chloroform	Ave	0.4380	0.4592	0.2000	10.5	10.0	4.8	20.0
1,1,1-Trichloroethane	Ave	0.3821	0.4096	0.1000	10.7	10.0	7.2	20.0
Cyclohexane	Ave	0.3475	0.3542	0.1000	10.2	10.0	1.9	20.0
Carbon tetrachloride	Ave	0.3289	0.3636	0.1000	11.1	10.0	10.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-292755/3 Calibration Date: 09/05/2022 10:37

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GS05X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3396	0.3482		10.3	10.0	2.6	20.0
Isobutyl alcohol	Ave	0.0036	0.0038		536	500	7.3	20.0
Benzene	Ave	1.002	1.023	0.5000	10.2	10.0	2.2	20.0
1,2-Dichloroethane	Ave	0.2855	0.2908	0.1000	10.2	10.0	1.9	20.0
t-Amyl methyl ether	Ave	0.6594	0.7066		10.7	10.0	7.2	20.0
n-Heptane	Ave	0.2871	0.3096		10.8	10.0	7.8	20.0
n-Butanol	Ave	0.2586	0.2872		972	875	11.0	20.0
Trichloroethene	Ave	0.2796	0.2934	0.2000	10.5	10.0	4.9	20.0
Methylcyclohexane	Ave	0.4162	0.4446	0.1000	10.7	10.0	6.8	20.0
1,2-Dichloropropane	Ave	0.2449	0.2588	0.1000	10.6	10.0	5.7	20.0
Methyl methacrylate	Ave	10.41	11.10		10.7	10.0	6.7	20.0
Dibromomethane	Ave	0.1344	0.1450		10.8	10.0	7.8	20.0
1,4-Dioxane	Lin2		0.0559	0.0050	479	500	-4.2	20.0
Bromodichloromethane	Ave	0.2943	0.3403	0.2000	11.6	10.0	15.6	20.0
2-Nitropropane	Ave	2.340	3.007		64.3	50.0	28.5*	20.0
1-Bromo-2-chloroethane	Ave	0.2652	0.2808		10.6	10.0	5.9	20.0
cis-1,3-Dichloropropene	Ave	0.3671	0.4313	0.2000	11.7	10.0	17.5	20.0
4-Methyl-2-pentanone	Ave	13.18	14.27	0.1000	108	100	8.3	20.0
Toluene	Ave	0.8674	0.8806	0.4000	10.2	10.0	1.5	20.0
trans-1,3-Dichloropropene	Ave	0.3864	0.4607	0.1000	11.9	10.0	19.2	20.0
Ethyl methacrylate	Ave	0.3328	0.3757		11.3	10.0	12.9	20.0
1,1,2-Trichloroethane	Ave	0.2551	0.2689	0.1000	10.5	10.0	5.4	20.0
Tetrachloroethene	Ave	0.4369	0.4505	0.2000	10.3	10.0	3.1	20.0
1,3-Dichloropropane	Ave	0.4185	0.4463		10.7	10.0	6.6	20.0
2-Hexanone	Ave	9.609	10.44	0.1000	109	100	8.6	20.0
Dibromochloromethane	Ave	0.2790	0.3475		12.5	10.0	24.5*	20.0
1,2-Dibromoethane	Ave	0.2511	0.2724	0.1000	10.8	10.0	8.5	20.0
1-Chlorohexane	Ave	0.4862	0.4921		10.1	10.0	1.2	20.0
Chlorobenzene	Ave	1.050	1.077	0.5000	10.3	10.0	2.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3370	0.3809		11.3	10.0	13.0	20.0
Ethylbenzene	Ave	1.682	1.735	0.1000	10.3	10.0	3.2	20.0
m&p-Xylene	Ave	0.6759	0.7107	0.1000	21.0	20.0	5.2	20.0
o-Xylene	Ave	0.6696	0.7009	0.3000	10.5	10.0	4.7	20.0
Styrene	Ave	1.134	1.203	0.3000	10.6	10.0	6.0	20.0
Bromoform	Ave	0.1570	0.2191	0.1000	14.0	10.0	39.5*	20.0
Isopropylbenzene	Ave	1.712	1.812	0.1000	10.6	10.0	5.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5342	0.5746	0.3000	10.8	10.0	7.6	20.0
Bromobenzene	Ave	0.7697	0.7933		10.3	10.0	3.1	20.0
trans-1,4-Dichloro-2-butene	Ave	4.847	5.751		119	100	18.6	20.0
1,2,3-Trichloropropane	Ave	0.1534	0.1689		11.0	10.0	10.1	20.0
N-Propylbenzene	Ave	3.363	3.421		10.2	10.0	1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-292755/3 Calibration Date: 09/05/2022 10:37

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GS05X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.7395	0.7471		10.1	10.0	1.0	20.0
1,3,5-Trimethylbenzene	Ave	2.519	2.618		10.4	10.0	3.9	20.0
4-Chlorotoluene	Ave	0.7729	0.7808		10.1	10.0	1.0	20.0
tert-Butylbenzene	Ave	0.5805	0.6222		10.7	10.0	7.2	20.0
Pentachloroethane	Ave	0.4154	0.4789		11.5	10.0	15.3	20.0
1,2,4-Trimethylbenzene	Ave	2.595	2.711		10.4	10.0	4.5	20.0
sec-Butylbenzene	Ave	3.159	3.296		10.4	10.0	4.3	20.0
1,3-Dichlorobenzene	Ave	1.590	1.614	0.6000	10.2	10.0	1.6	20.0
p-Isopropyltoluene	Ave	2.881	3.039		10.5	10.0	5.5	20.0
1,4-Dichlorobenzene	Ave	1.664	1.649	0.5000	9.91	10.0	-0.9	20.0
1,2,3-Trimethylbenzene	Ave	1.191	1.226		10.3	10.0	2.9	20.0
Benzyl chloride	Lin1		0.2581		12.3	10.0	22.7*	20.0
n-Butylbenzene	Ave	1.407	1.465		10.4	10.0	4.1	20.0
1,2-Dichlorobenzene	Ave	1.492	1.526	0.4000	10.2	10.0	2.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0787	0.0981	0.0500	12.5	10.0	24.7*	20.0
1,3,5-Trichlorobenzene	Ave	1.282	1.336		10.4	10.0	4.2	20.0
1,2,4-Trichlorobenzene	Ave	1.202	1.245	0.2000	10.4	10.0	3.6	20.0
Hexachlorobutadiene	Ave	0.5695	0.6079		10.7	10.0	6.7	20.0
Naphthalene	Ave	2.034	2.175		10.7	10.0	6.9	20.0
1,2,3-Trichlorobenzene	Ave	1.062	1.101		10.4	10.0	3.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2483	0.2523		10.2	10.0	1.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0527	0.0537		10.2	10.0	1.8	20.0
Toluene-d8 (Surr)	Ave	1.281	1.262		9.85	10.0	-1.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4767	0.4765		10.0	10.0	-0.0	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Sep-2022 10:37:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065640-003
Misc. Info.: CCVIS VSTD10
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Sep-2022 12:33:45 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: DVW2 Date: 05-Sep-2022 11:52:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	592867	10.0	10.7	
5 Chloromethane	50	2.093	2.093	0.000	99	642268	10.0	10.3	
6 Vinyl chloride	62	2.203	2.203	0.000	98	677417	10.0	10.6	
7 Butadiene	39	2.215	2.215	0.000	93	542759	10.0	8.93	
9 Bromomethane	94	2.526	2.526	0.000	91	531057	10.0	10.5	
10 Chloroethane	64	2.605	2.605	0.000	100	392981	10.0	10.3	
11 Dichlorofluoromethane	67	2.837	2.837	0.000	97	978444	10.0	10.5	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	97	962949	10.0	11.0	
13 Ethyl ether	59	3.129	3.129	0.000	89	399417	10.0	9.80	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.221	3.221	0.000	89	636527	10.0	10.3	
17 Acrolein	56	3.300	3.300	0.000	100	3048847	500.0	483.2	
18 1,1-Dichloroethene	96	3.422	3.422	0.000	97	442564	10.0	9.62	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.464	3.464	0.000	90	452874	10.0	10.1	
20 Acetone	43	3.471	3.471	0.000	74	615537	100.0	88.9	
21 Iodomethane	142	3.611	3.611	0.000	99	848650	10.0	9.74	
22 Ethyl bromide	108	3.641	3.641	0.000	98	416422	10.0	9.86	
24 Isopropyl alcohol	45	3.696	3.696	0.000	26	208519	200.0	176.7	M
23 Carbon disulfide	76	3.708	3.708	0.000	99	1184759	10.0	10.6	
25 Methyl acetate	43	3.861	3.861	0.000	96	205472	10.0	9.57	M
27 3-Chloro-1-propene	41	3.885	3.885	0.000	89	629479	10.0	10.1	
29 Methylene Chloride	84	4.062	4.062	0.000	88	515732	10.0	10.1	
* 30 t-Butyl alcohol-d10 (IS)	65	4.123	4.123	0.000	64	136522	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.233	4.233	0.000	99	405369	200.0	167.5	
32 Acrylonitrile	53	4.403	4.403	0.000	97	246648	25.0	26.9	
33 Methyl tert-butyl ether	73	4.452	4.452	0.000	89	1360673	10.0	10.4	
34 trans-1,2-Dichloroethene	96	4.464	4.464	0.000	97	540083	10.0	10.1	
35 Hexane	57	4.891	4.891	0.000	91	614211	10.0	10.5	
37 1,1-Dichloroethane	63	5.129	5.129	0.000	96	899962	10.0	10.3	
38 Isopropyl ether	45	5.190	5.190	0.000	93	1488268	10.0	10.3	
39 2-Chloro-1,3-butadiene	53	5.239	5.239	0.000	91	720378	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.726	0.000	97	1527243	10.0	10.3	
41 2-Butanone (MEK)	43	5.940	5.940	0.000	99	1393416	100.0	101.9	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	80	604630	10.0	10.3	
43 2,2-Dichloropropane	77	5.976	5.976	0.000	86	780638	10.0	11.1	
45 Propionitrile	54	6.031	6.031	0.000	99	739626	200.0	228.3	
48 Methacrylonitrile	67	6.238	6.238	0.000	90	1551906	100.0	106.4	
49 Chlorobromomethane	128	6.299	6.299	0.000	84	302126	10.0	10.7	
50 Tetrahydrofuran	71	6.305	6.305	0.000	87	212697	50.0	52.4	
51 Chloroform	83	6.452	6.452	0.000	93	980621	10.0	10.5	
$ 52 Dibromofluoromethane (Surr)	113	6.665	6.665	0.000	94	538794	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.677	6.677	0.000	98	874812	10.0	10.7	
54 Cyclohexane	56	6.775	6.775	0.000	88	756494	10.0	10.2	
56 Carbon tetrachloride	117	6.885	6.885	0.000	97	776539	10.0	11.1	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	97	743736	10.0	10.3	
58 Isobutyl alcohol	41	7.080	7.080	0.000	92	410918	500.0	536.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.116	7.116	0.000	81	114666	10.0	10.2	
60 Benzene	78	7.153	7.153	0.000	96	2185255	10.0	10.2	
61 1,2-Dichloroethane	62	7.220	7.220	0.000	98	621122	10.0	10.2	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	1509096	10.0	10.7	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2135658	10.0	10.0	
65 n-Heptane	43	7.573	7.573	0.000	89	661261	10.0	10.8	
67 n-Butanol	56	7.976	7.976	0.000	88	686064	875.0	971.6	
68 Trichloroethene	95	8.043	8.043	0.000	96	626573	10.0	10.5	
69 Methylcyclohexane	83	8.348	8.348	0.000	89	949539	10.0	10.7	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	97	552717	10.0	10.6	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	96	905279	10.0	10.8	
72 Methyl methacrylate	69	8.463	8.463	0.000	87	303080	10.0	10.7	
73 Dibromomethane	93	8.482	8.482	0.000	92	309594	10.0	10.8	
74 1,4-Dioxane	88	8.512	8.512	0.000	81	76287	500.0	479.0	
76 Dichlorobromomethane	83	8.720	8.720	0.000	99	726713	10.0	11.6	
77 2-Nitropropane	41	9.000	9.000	0.000	99	410584	50.0	64.3	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	599796	10.0	10.6	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	921105	10.0	11.7	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	95	3897027	100.0	108.3	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	2199886	10.0	9.85	
84 Toluene	92	9.671	9.671	0.000	98	1535652	10.0	10.2	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	91	803414	10.0	11.9	
104 Ethyl methacrylate	69	10.006	10.006	0.000	87	655084	10.0	11.3	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	468846	10.0	10.5	
107 Tetrachloroethene	166	10.231	10.231	0.000	98	785553	10.0	10.3	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	778264	10.0	10.7	
109 2-Hexanone	43	10.366	10.366	0.000	95	2849269	100.0	108.6	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	605888	10.0	12.5	
112 Ethylene Dibromide	107	10.634	10.634	0.000	98	475006	10.0	10.8	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1743803	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	94	858094	10.0	10.1	
115 Chlorobenzene	112	11.097	11.097	0.000	97	1878538	10.0	10.3	
117 1,1,1,2-Tetrachloroethane	131	11.182	11.182	0.000	96	664160	10.0	11.3	
116 Ethylbenzene	91	11.189	11.189	0.000	98	3025064	10.0	10.3	
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	2478493	20.0	21.0	
120 o-Xylene	106	11.634	11.634	0.000	95	1222242	10.0	10.5	
121 Styrene	104	11.652	11.652	0.000	95	2097136	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromoform	173	11.804	11.804	0.000	98	382072	10.0	14.0	
123 Isopropylbenzene	105	11.938	11.938	0.000	95	3160508	10.0	10.6	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	95	830944	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.182	0.000	93	611370	10.0	10.8	
128 Bromobenzene	156	12.194	12.194	0.000	94	844094	10.0	10.3	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	93	1570170	100.0	118.6	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	179682	10.0	11.0	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	3639970	10.0	10.2	
132 2-Chlorotoluene	126	12.341	12.341	0.000	98	794893	10.0	10.1	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	2785543	10.0	10.4	
134 4-Chlorotoluene	126	12.432	12.432	0.000	97	830737	10.0	10.1	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	662079	10.0	10.7	
136 Pentachloroethane	167	12.676	12.676	0.000	92	509537	10.0	11.5	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	2884542	10.0	10.4	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	3507082	10.0	10.4	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	1717849	10.0	10.2	
140 4-Isopropyltoluene	119	12.914	12.914	0.000	97	3233647	10.0	10.5	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	92	1064022	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	95	1754686	10.0	9.91	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	1304613	10.0	10.3	
144 Benzyl chloride	126	13.060	13.060	0.000	98	274593	10.0	12.3	
145 p-Diethylbenzene	119	13.115	13.115	0.000	92	1938753	10.0	10.6	
146 n-Butylbenzene	92	13.206	13.206	0.000	97	1559131	10.0	10.4	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	1623386	10.0	10.2	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	92	104404	10.0	12.5	
150 1,3,5-Trichlorobenzene	180	13.908	13.908	0.000	98	1421174	10.0	10.4	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	1324197	10.0	10.4	
152 Hexachlorobutadiene	225	14.414	14.414	0.000	96	646792	10.0	10.7	
153 Naphthalene	128	14.511	14.511	0.000	96	2314274	10.0	10.7	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	1171242	10.0	10.4	
155 2-Methylnaphthalene	142	15.261	15.261	0.000	92	1486015	10.0	10.6	
166 Pentane	43	2.928	2.928	0.000	97	559895	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00053	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00110	Amount Added: 20.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added: 20.00	Units: uL	
MSV_29_826ISS_00036	Amount Added: 1.00	Units: uL	Run Reagent

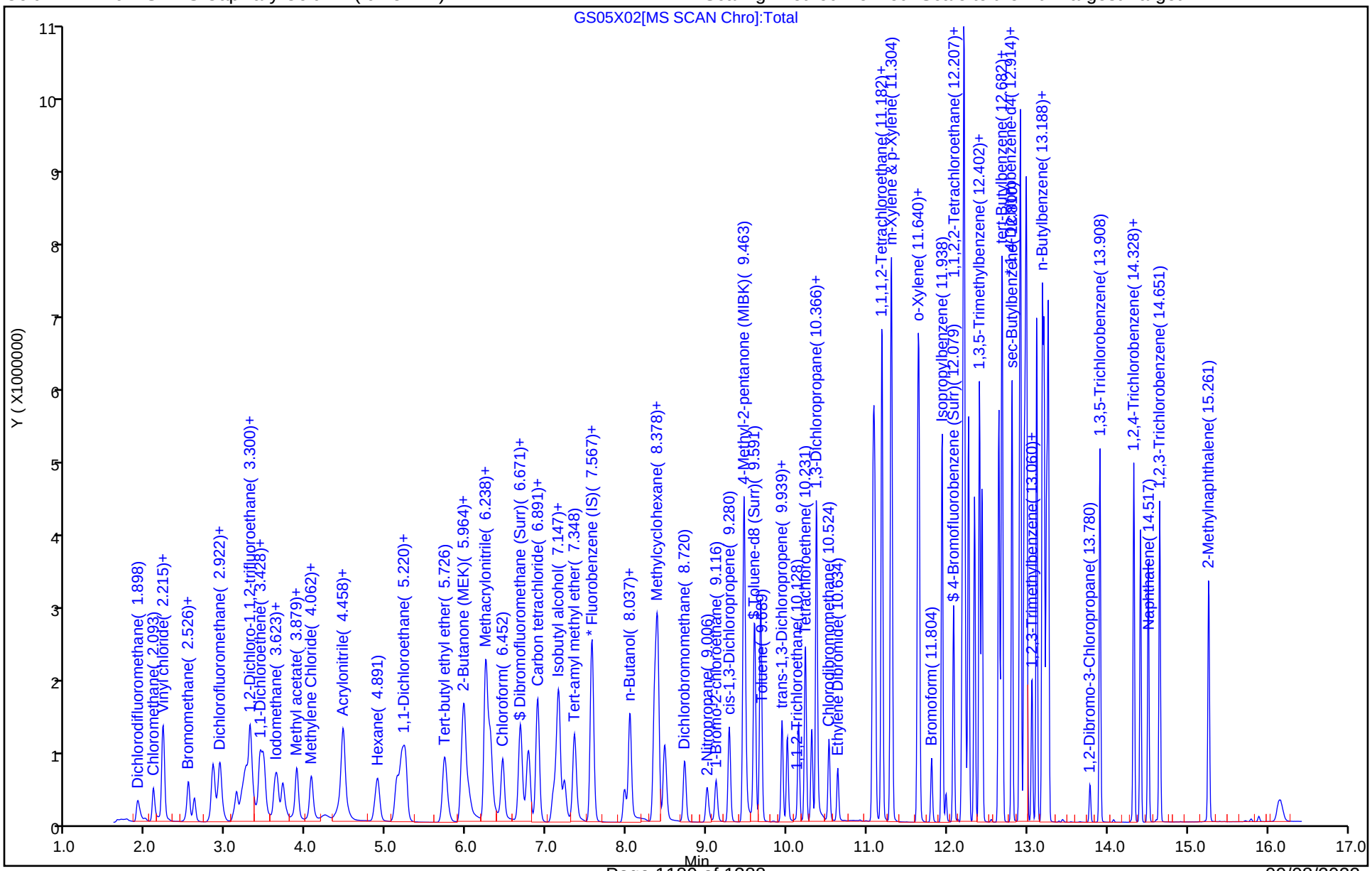
Report Date: 05-Sep-2022 12:33:46 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X02.D

Injection Date:	05-Sep-2022 10:37:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	CCVIS VSTD10			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

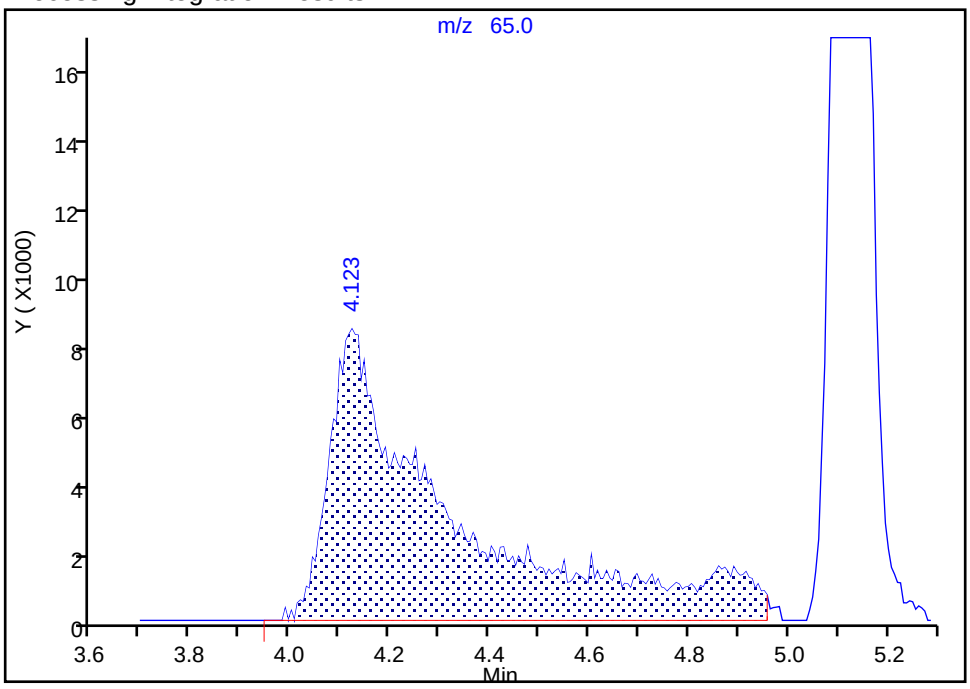
Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X02.D
Injection Date: 05-Sep-2022 10:37:30 Instrument ID: 16334
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

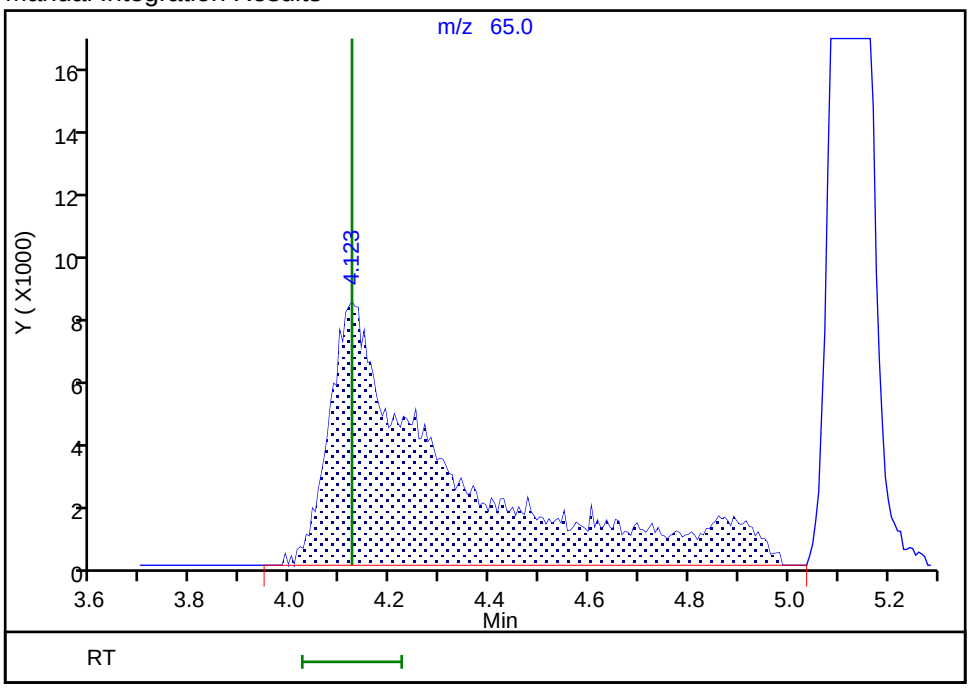
Processing Integration Results

RT: 4.12
Area: 135996
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.12
Area: 136522
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 05-Sep-2022 11:09:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

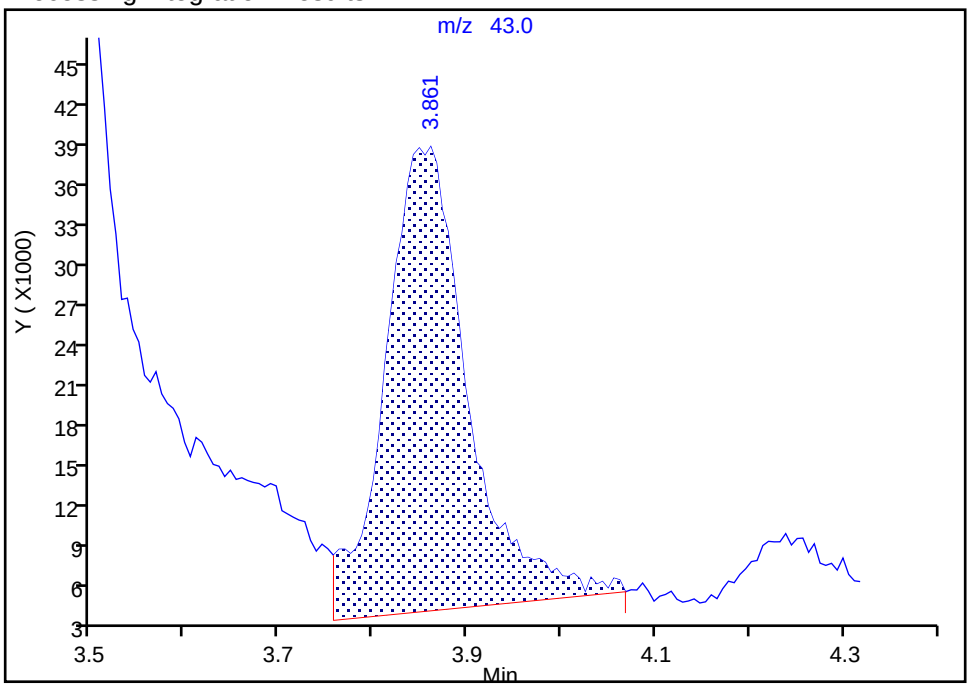
Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X02.D				
Injection Date:	05-Sep-2022 10:37:30	Instrument ID:	16334		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

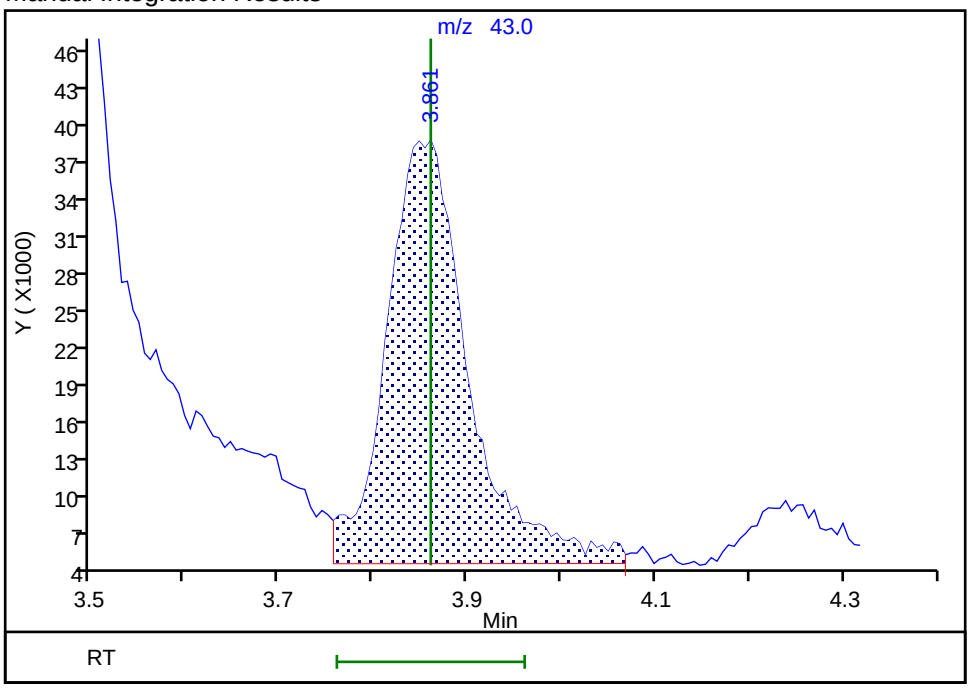
Processing Integration Results

RT: 3.86
Area: 212262
Amount: 11.407692
Amount Units: ug/l



Manual Integration Results

RT: 3.86
Area: 205472
Amount: 9.572972
Amount Units: ug/l



Reviewer: DVW2, 05-Sep-2022 11:09:19
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: ICV 410-274690/6 Calibration Date: 07/12/2022 16:20

Instrument ID: 19930 Calib Start Date: 07/11/2022 15:36

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 17:43

Lab File ID: IL12X06.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3080	0.3270	0.1000	5.31	5.00	6.1	30.0
Chloromethane	Ave	0.3498	0.3844	0.1000	5.50	5.00	9.9	30.0
Vinyl chloride	Ave	0.3444	0.3739	0.1000	5.43	5.00	8.5	30.0
1,3-Butadiene	Ave	0.3898	0.3311		4.25	5.00	-15.1	30.0
Bromomethane	Ave	0.2402	0.2482	0.1000	5.17	5.00	3.4	30.0
Chloroethane	Ave	0.2025	0.2158	0.1000	5.33	5.00	6.6	30.0
Dichlorofluoromethane	Ave	0.4693	0.5116		5.45	5.00	9.0	30.0
Trichlorofluoromethane	Ave	0.4546	0.4570	0.1000	5.03	5.00	0.5	30.0
Ethyl ether	Ave	0.2194	0.2300		5.23	4.98	4.8	30.0
Freon 123a	Ave	0.3445	0.3532		5.13	5.00	2.5	30.0
Acrolein	Ave	2.337	2.138		34.3	37.5	-8.5	30.0
1,1-Dichloroethene	Ave	0.2535	0.2732	0.1000	5.39	5.00	7.8	30.0
Acetone	Ave	2.759	2.502	0.1000	56.7	62.5	-9.3	30.0
Freon 113	Ave	0.2563	0.2838	0.1000	5.54	5.00	10.7	30.0
Methyl iodide	Ave	0.4459	0.5112		5.73	5.00	14.6	30.0
Ethyl bromide	Ave	0.2291	0.2138		4.56	4.89	-6.7	30.0
Carbon disulfide	Ave	0.6342	0.7297	0.1000	5.75	5.00	15.1	30.0
Methyl acetate	Ave	8.110	8.367	0.1000	5.16	5.00	3.2	30.0
Allyl chloride	Ave	0.3709	0.4134		5.57	5.00	11.5	30.0
Methylene Chloride	Ave	0.2778	0.2930	0.1000	5.27	5.00	5.5	30.0
t-Butyl alcohol	Ave	0.8596	0.8255		48.0	50.0	-4.0	30.0
Acrylonitrile	Ave	3.866	3.852		24.9	25.0	-0.4	30.0
Methyl tert-butyl ether	Ave	0.6366	0.6692	0.1000	5.26	5.00	5.1	30.0
trans-1,2-Dichloroethene	Ave	0.2812	0.2932	0.1000	5.21	5.00	4.3	30.0
n-Hexane	Ave	0.3931	0.4063		5.17	5.00	3.4	30.0
1,1-Dichloroethane	Ave	0.5155	0.5384	0.2000	5.22	5.00	4.5	30.0
di-Isopropyl ether	Ave	0.7929	0.8489		5.35	5.00	7.1	30.0
2-Chloro-1,3-butadiene	Ave	0.3771	0.4395		5.83	5.00	16.5	30.0
Ethyl t-butyl ether	Ave	0.7349	0.7961		5.42	5.00	8.3	30.0
2-Butanone (MEK)	Ave	5.123	5.282	0.1000	64.4	62.5	3.1	30.0
cis-1,2-Dichloroethene	Ave	0.3147	0.3389	0.1000	5.38	5.00	7.7	30.0
2,2-Dichloropropane	Ave	0.4180	0.4490		5.37	5.00	7.4	30.0
Propionitrile	Ave	1.485	1.609		40.6	37.5	8.3	30.0
Methacrylonitrile	Ave	5.344	5.505		38.6	37.5	3.0	30.0
Bromochloromethane	Ave	0.1427	0.1520		5.33	5.00	6.6	30.0
Tetrahydrofuran	Ave	1.480	1.536		25.9	25.0	3.8	30.0
Chloroform	Ave	0.5170	0.5360	0.2000	5.18	5.00	3.7	30.0
1,1,1-Trichloroethane	Ave	0.4627	0.4786	0.1000	5.17	5.00	3.4	30.0
Cyclohexane	Ave	0.4635	0.4795	0.1000	5.17	5.00	3.5	30.0
1,1-Dichloropropene	Ave	0.4023	0.4282		5.32	5.00	6.4	30.0
Carbon tetrachloride	Ave	0.4134	0.4329	0.1000	5.24	5.00	4.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: ICV 410-274690/6 Calibration Date: 07/12/2022 16:20

Instrument ID: 19930 Calib Start Date: 07/11/2022 15:36

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 17:43

Lab File ID: IL12X06.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Ave	0.3370	0.3079		114	125	-8.6	30.0
Benzene	Ave	1.211	1.273	0.5000	5.26	5.00	5.1	30.0
1,2-Dichloroethane	Ave	0.3229	0.3280	0.1000	5.08	5.00	1.6	30.0
t-Amyl methyl ether	Ave	0.6975	0.7353		5.27	5.00	5.4	30.0
n-Heptane	Ave	0.4331	0.4228		4.88	5.00	-2.4	30.0
n-Butanol	Ave	0.3095	0.2934		237	250	-5.2	30.0
Trichloroethene	Ave	0.3223	0.3310	0.2000	5.14	5.00	2.7	30.0
Methylcyclohexane	Ave	0.5314	0.5356	0.1000	5.04	5.00	0.8	30.0
1,2-Dichloropropane	Ave	0.3127	0.3252	0.1000	5.20	5.00	4.0	30.0
Methyl methacrylate	Ave	9.618	10.26		5.33	5.00	6.7	30.0
1,4-Dioxane	Ave	0.0687	0.0726	0.0050	132	125	5.7	30.0
Dibromomethane	Ave	0.1498	0.1541		5.15	5.00	2.9	30.0
Bromodichloromethane	Ave	0.3709	0.3894	0.2000	5.25	5.00	5.0	30.0
2-Nitropropane	Ave	2.839	2.595		4.57	5.00	-8.6	30.0
1-Bromo-2-chloroethane	Ave	0.3192	0.3215		5.04	5.00	0.7	30.0
cis-1,3-Dichloropropene	Ave	0.4443	0.4565	0.2000	5.14	5.00	2.7	30.0
4-Methyl-2-pentanone (MIBK)	Ave	12.38	13.43	0.1000	67.8	62.5	8.5	30.0
Toluene	Ave	1.026	1.050	0.4000	5.12	5.00	2.4	30.0
trans-1,3-Dichloropropene	Ave	0.4679	0.4975	0.1000	5.32	5.00	6.3	30.0
Ethyl methacrylate	Ave	0.3537	0.3610		5.10	5.00	2.1	30.0
1,1,2-Trichloroethane	Ave	0.2891	0.2931	0.1000	5.07	5.00	1.4	30.0
Tetrachloroethene	Ave	0.4896	0.5018	0.2000	5.12	5.00	2.5	30.0
1,3-Dichloropropane	Ave	0.4836	0.4888		5.05	5.00	1.1	30.0
2-Hexanone	Ave	8.960	9.605	0.1000	67.0	62.5	7.2	30.0
Dibromochloromethane	Ave	0.3553	0.3671		5.17	5.00	3.3	30.0
1,2-Dibromoethane (EDB)	Ave	0.2676	0.2769	0.1000	5.17	5.00	3.5	30.0
1-Chlorohexane	Ave	0.5742	0.5722		4.98	5.00	-0.4	30.0
Chlorobenzene	Ave	1.150	1.181	0.5000	5.13	5.00	2.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3931	0.4022		5.12	5.00	2.3	30.0
Ethylbenzene	Ave	1.910	1.985	0.1000	5.20	5.00	3.9	30.0
m&p-Xylene	Ave	0.7426	0.7919	0.1000	10.7	10.0	6.6	30.0
o-Xylene	Ave	0.7081	0.7470	0.3000	5.27	5.00	5.5	30.0
Styrene	Ave	1.120	1.231	0.3000	5.49	5.00	9.9	30.0
Bromoform	Ave	0.2123	0.2179	0.1000	5.13	5.00	2.6	30.0
Isopropylbenzene	Ave	1.839	1.985	0.1000	5.40	5.00	7.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6437	0.6334	0.3000	4.92	5.00	-1.6	30.0
Bromobenzene	Ave	0.8296	0.8699		5.24	5.00	4.9	30.0
trans-1,4-Dichloro-2-butene	Ave	4.382	4.412		25.2	25.0	0.7	30.0
1,2,3-Trichloropropane	Ave	0.1700	0.1764		5.19	5.00	3.8	30.0
N-Propylbenzene	Ave	3.976	4.121		5.18	5.00	3.7	30.0
2-Chlorotoluene	Ave	0.8199	0.8416		5.13	5.00	2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: ICV 410-274690/6 Calibration Date: 07/12/2022 16:20

Instrument ID: 19930 Calib Start Date: 07/11/2022 15:36

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 17:43

Lab File ID: IL12X06.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.781	2.930		5.27	5.00	5.3	30.0
4-Chlorotoluene	Ave	0.8366	0.8609		5.15	5.00	2.9	30.0
tert-Butylbenzene	Ave	0.6226	0.6586		5.29	5.00	5.8	30.0
Pentachloroethane	Ave	0.5041	0.5064		5.02	5.00	0.4	30.0
1,2,4-Trimethylbenzene	Ave	2.764	2.948		5.33	5.00	6.7	30.0
sec-Butylbenzene	Ave	3.595	3.780		5.26	5.00	5.1	30.0
1,3-Dichlorobenzene	Ave	1.603	1.629	0.6000	5.08	5.00	1.6	30.0
p-Isopropyltoluene	Ave	3.028	3.232		5.34	5.00	6.7	30.0
1,4-Dichlorobenzene	Ave	1.656	1.659	0.5000	5.01	5.00	0.2	30.0
1,2,3-Trimethylbenzene	Ave	1.274	1.291		5.07	5.00	1.3	30.0
Benzyl chloride	Ave	0.2416	0.2432		5.03	5.00	0.6	30.0
n-Butylbenzene	Ave	1.444	1.508		5.22	5.00	4.4	30.0
1,2-Dichlorobenzene	Ave	1.490	1.503	0.4000	5.04	5.00	0.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0918	0.0851	0.0500	4.63	5.00	-7.4	30.0
1,3,5-Trichlorobenzene	Ave	1.093	1.097		5.02	5.00	0.3	30.0
1,2,4-Trichlorobenzene	Ave	0.8809	0.8693	0.2000	4.93	5.00	-1.3	30.0
Hexachlorobutadiene	Ave	0.4162	0.3778		4.54	5.00	-9.2	30.0
Naphthalene	Ave	1.626	1.608		4.94	5.00	-1.1	30.0
1,2,3-Trichlorobenzene	Ave	0.7814	0.7541		4.83	5.00	-3.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2511	0.2543		10.1	10.0	1.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0516	0.0513		9.95	10.0	-0.5	30.0
Toluene-d8 (Surr)	Ave	1.298	1.297		9.99	10.0	-0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4758	0.4783		10.1	10.0	0.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12X06.D
Lims ID: ICV LG
Client ID:
Sample Type: ICV
Inject. Date: 12-Jul-2022 16:20:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0061619-006
Misc. Info.: IC STD4
Operator ID: kas02648 Instrument ID: 19930
Sublist:

Method: \\chromfs\Lancaster\ChromData\19930\20220712-61619.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 14-Jul-2022 16:31:24 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: K4WN Date: 14-Jul-2022 15:44:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.965	1.977	-0.012	99	355688	5.00	5.31	
4 Chloromethane	50	2.166	2.178	-0.012	99	418191	5.00	5.50	
5 Vinyl chloride	62	2.282	2.294	-0.012	98	406692	5.00	5.43	
6 Butadiene	39	2.294	2.300	-0.006	90	360183	5.00	4.25	
7 Bromomethane	94	2.623	2.629	-0.006	90	270032	5.00	5.17	
8 Chloroethane	64	2.696	2.709	-0.012	100	234764	5.00	5.33	
9 Dichlorofluoromethane	67	2.946	2.952	-0.006	97	556475	5.00	5.45	
10 Trichlorofluoromethane	101	3.007	3.019	-0.012	97	497142	5.00	5.03	
11 Ethyl ether	59	3.251	3.251	0.000	90	249477	4.98	5.23	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.343	3.349	-0.006	92	384239	5.00	5.13	
13 Acrolein	56	3.428	3.422	0.006	99	252263	37.5	34.3	
14 1,1-Dichloroethene	96	3.562	3.568	-0.006	98	297213	5.00	5.39	
15 Acetone	43	3.587	3.592	-0.006	100	491903	62.5	56.7	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.605	3.611	-0.006	91	308760	5.00	5.54	
17 Iodomethane	142	3.757	3.763	-0.006	98	556079	5.00	5.73	
18 Ethyl bromide	108	3.788	3.794	-0.006	97	227201	4.89	4.56	
19 Carbon disulfide	76	3.867	3.873	-0.006	99	793747	5.00	5.75	
21 Methyl acetate	43	4.013	4.019	-0.006	97	131616	5.00	5.16	M
22 3-Chloro-1-propene	41	4.038	4.044	-0.006	93	449702	5.00	5.57	
23 Methylene Chloride	84	4.233	4.233	0.000	91	318721	5.00	5.27	
* 24 t-Butyl alcohol-d10 (IS)	65	4.214	4.239	-0.025	0	157301	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.355	4.361	-0.006	99	129857	50.0	48.0	M
26 Acrylonitrile	53	4.562	4.568	-0.006	100	302934	25.0	24.9	
27 Methyl tert-butyl ether	73	4.641	4.635	0.006	94	727991	5.00	5.26	
28 trans-1,2-Dichloroethene	96	4.647	4.653	-0.006	99	318921	5.00	5.21	
29 Hexane	57	5.068	5.068	0.000	91	441997	5.00	5.17	
31 1,1-Dichloroethane	63	5.306	5.299	0.007	96	585721	5.00	5.22	
32 Isopropyl ether	45	5.361	5.360	0.001	93	923486	5.00	5.35	
33 2-Chloro-1,3-butadiene	53	5.409	5.415	-0.006	90	478100	5.00	5.83	
34 Tert-butyl ethyl ether	59	5.891	5.897	-0.006	97	866043	5.00	5.42	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.092	6.092	0.000	99	1038512	62.5	64.4	
37 cis-1,2-Dichloroethene	96	6.129	6.129	0.000	81	368621	5.00	5.38	
38 2,2-Dichloropropane	77	6.147	6.147	0.000	87	488379	5.00	5.37	
40 Propionitrile	54	6.171	6.177	-0.006	98	189782	37.5	40.6	
42 Methacrylonitrile	67	6.391	6.397	-0.006	90	649494	37.5	38.6	
43 Chlorobromomethane	128	6.458	6.458	0.000	92	165366	5.00	5.33	
44 Tetrahydrofuran	71	6.470	6.470	0.000	78	120805	25.0	25.9	
45 Chloroform	83	6.604	6.604	0.000	93	583117	5.00	5.18	
$ 46 Dibromofluoromethane (Surr)	113	6.818	6.824	-0.006	94	553284	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.836	6.836	0.000	98	520580	5.00	5.17	
48 Cyclohexane	56	6.940	6.939	0.001	89	521663	5.00	5.17	
51 1,1-Dichloropropene	75	7.043	7.049	-0.006	97	465763	5.00	5.32	
50 Carbon tetrachloride	117	7.043	7.049	-0.006	84	470895	5.00	5.24	
52 Isobutyl alcohol	41	7.183	7.183	0.000	93	121073	125.0	114.2	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.275	0.000	0	111631	10.0	9.95	
54 Benzene	78	7.305	7.305	0.000	96	1385097	5.00	5.26	
56 1,2-Dichloroethane	62	7.372	7.378	-0.006	97	356826	5.00	5.08	
57 Tert-amyl methyl ether	73	7.494	7.494	0.000	99	799834	5.00	5.27	
* 58 Fluorobenzene (IS)	96	7.708	7.708	0.000	99	2175639	10.0	10.0	
59 n-Heptane	43	7.720	7.720	0.000	91	459900	5.00	4.88	
60 n-Butanol	56	8.067	8.061	0.006	88	230759	250.0	237.0	
61 Trichloroethene	95	8.183	8.183	0.000	97	360094	5.00	5.14	
62 Methylcyclohexane	83	8.494	8.494	0.000	94	582678	5.00	5.04	
63 1,2-Dichloropropane	63	8.512	8.512	0.000	85	353715	5.00	5.20	
64 Methyl methacrylate	69	8.598	8.598	0.000	90	161417	5.00	5.33	
65 1,4-Dioxane	88	8.610	8.598	0.012	32	28549	125.0	132.2	M
66 Dibromomethane	93	8.628	8.622	0.006	94	167667	5.00	5.15	
68 Dichlorobromomethane	83	8.854	8.854	0.000	100	423564	5.00	5.25	
69 2-Nitropropane	41	9.116	9.116	0.000	97	40823	5.00	4.57	
72 1-Bromo-2-chloroethane	63	9.250	9.244	0.006	98	349777	5.00	5.04	
73 cis-1,3-Dichloropropene	75	9.402	9.402	0.000	97	496606	5.00	5.14	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	96	2640756	62.5	67.8	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2236239	10.0	10.0	
76 Toluene	92	9.780	9.780	0.000	98	905818	5.00	5.12	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	91	429053	5.00	5.32	
79 Ethyl methacrylate	69	10.097	10.097	0.000	89	311316	5.00	5.10	
80 1,1,2-Trichloroethane	97	10.238	10.238	0.000	91	252738	5.00	5.07	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	432707	5.00	5.12	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	88	421529	5.00	5.05	
83 2-Hexanone	43	10.451	10.451	0.000	96	1888560	62.5	67.0	
85 Chlorodibromomethane	129	10.616	10.616	0.000	89	316604	5.00	5.17	
86 Ethylene Dibromide	107	10.731	10.731	0.000	98	238779	5.00	5.17	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1724781	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	96	493426	5.00	4.98	
90 Chlorobenzene	112	11.183	11.182	0.001	96	1018489	5.00	5.13	
91 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	95	346893	5.00	5.12	
92 Ethylbenzene	91	11.268	11.268	0.000	98	1712113	5.00	5.20	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	0	1365814	10.0	10.7	
94 o-Xylene	106	11.713	11.713	0.000	96	644183	5.00	5.27	
95 Styrene	104	11.725	11.725	0.000	95	1061349	5.00	5.49	
96 Bromoform	173	11.890	11.884	0.006	98	187905	5.00	5.13	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	1712272	5.00	5.40	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	94	825013	10.0	10.1	
101 1,1,2,2-Tetrachloroethane	83	12.256	12.249	0.007	94	306453	5.00	4.92	
102 Bromobenzene	156	12.274	12.274	0.000	96	420846	5.00	5.24	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	90	346990	25.0	25.2	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	81	85328	5.00	5.19	
105 N-Propylbenzene	91	12.341	12.341	0.000	99	1993881	5.00	5.18	
106 2-Chlorotoluene	126	12.414	12.414	0.000	97	407171	5.00	5.13	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	1417273	5.00	5.27	
108 4-Chlorotoluene	126	12.512	12.505	0.007	96	416469	5.00	5.15	
109 tert-Butylbenzene	134	12.713	12.713	0.000	93	318611	5.00	5.29	
110 Pentachloroethane	167	12.749	12.749	0.000	92	244969	5.00	5.02	
111 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	1426061	5.00	5.33	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	1828706	5.00	5.26	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	788072	5.00	5.08	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	1563765	5.00	5.34	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	967569	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	95	802487	5.00	5.01	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	624574	5.00	5.07	
118 Benzyl chloride	126	13.127	13.127	0.000	98	117633	5.00	5.03	
119 n-Butylbenzene	92	13.280	13.280	0.000	96	729679	5.00	5.22	
120 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	726966	5.00	5.04	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.853	0.006	88	41147	5.00	4.63	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	530555	5.00	5.02	
124 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	420547	5.00	4.93	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	97	182776	5.00	4.54	
126 Naphthalene	128	14.584	14.584	0.000	97	777700	5.00	4.94	
127 1,2,3-Trichlorobenzene	180	14.725	14.724	0.001	96	364830	5.00	4.83	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00063	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00066	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00017	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00089	Amount Added:	12.50	Units: uL	
LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

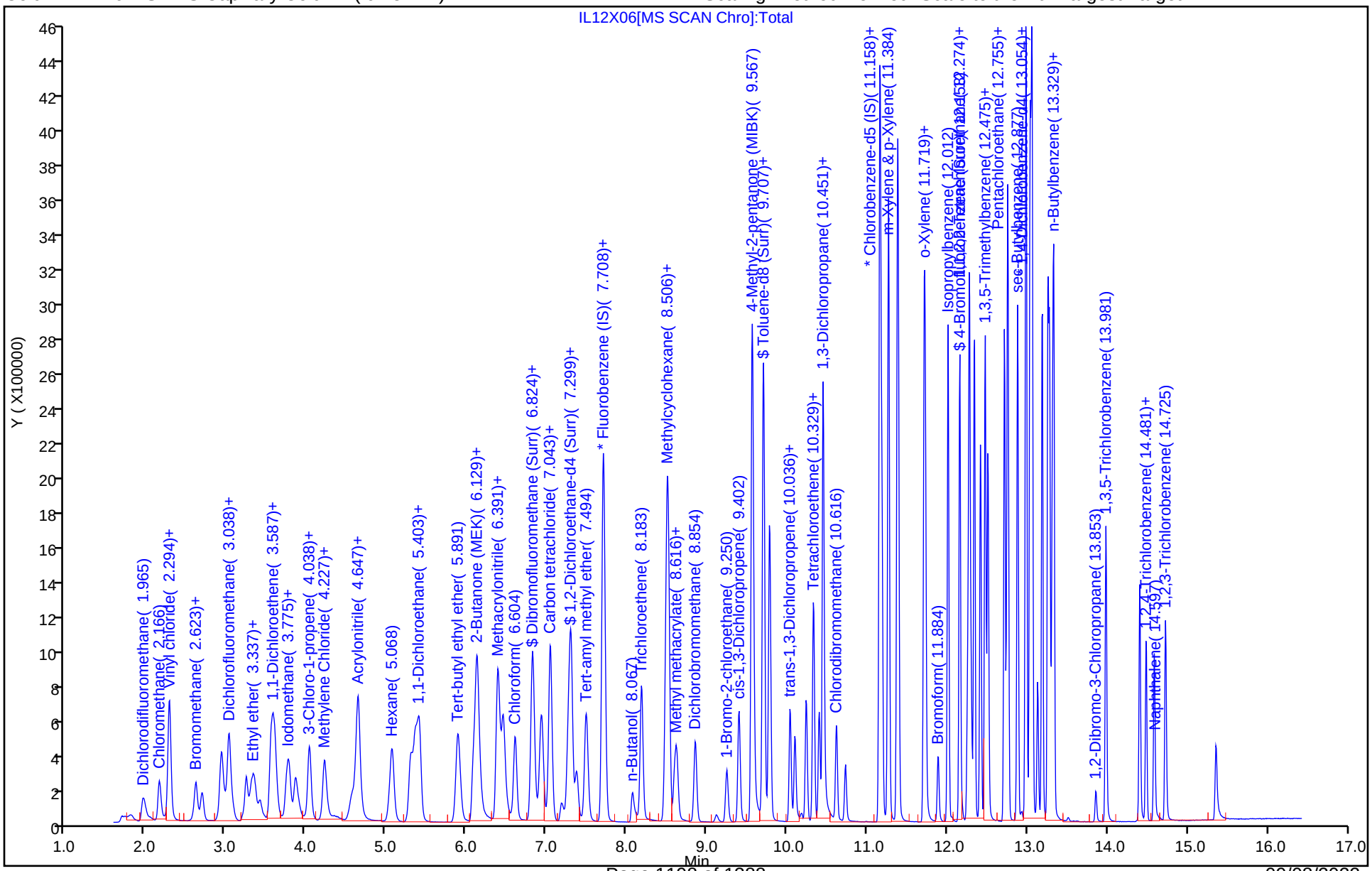
Report Date: 14-Jul-2022 16:32:25 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12X06.D

Injection Date:	12-Jul-2022 16:20:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	ICV LG			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

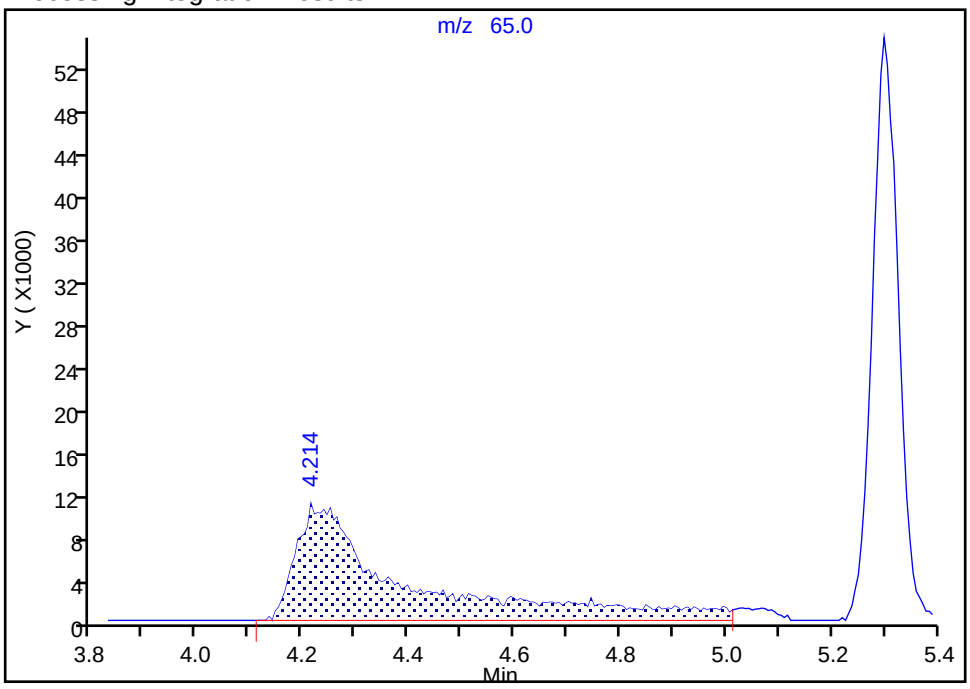
Data File:	\\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12X06.D				
Injection Date:	12-Jul-2022 16:20:30	Instrument ID:	19930		
Lims ID:	ICV LG				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

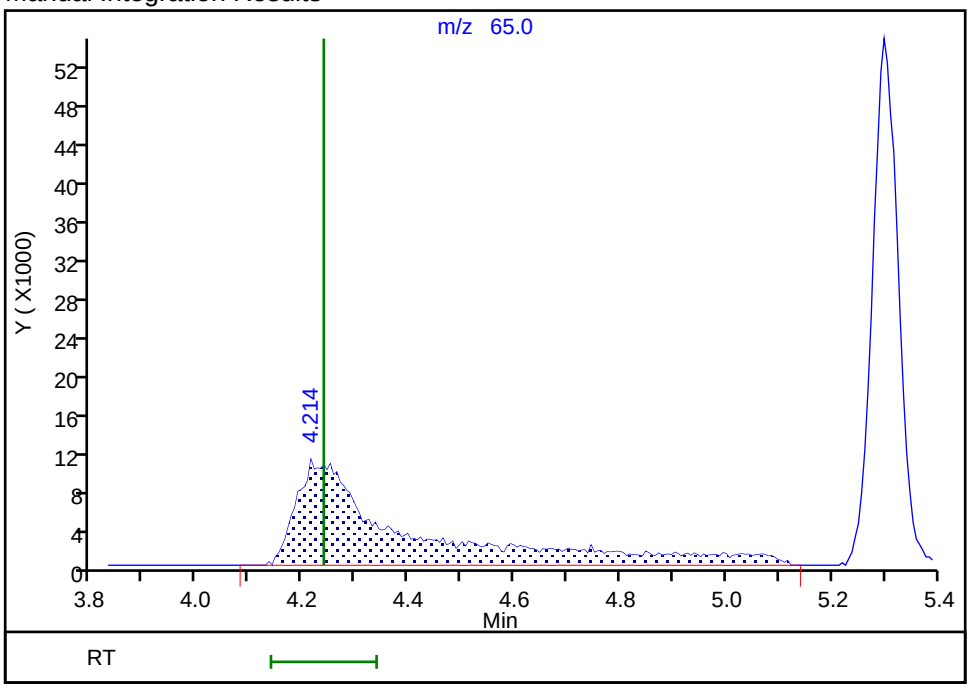
Processing Integration Results

RT: 4.21
Area: 151672
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.21
Area: 157301
Amount: 50.000000
Amount Units: ug/l



Reviewer: K4WN, 14-Jul-2022 16:30:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

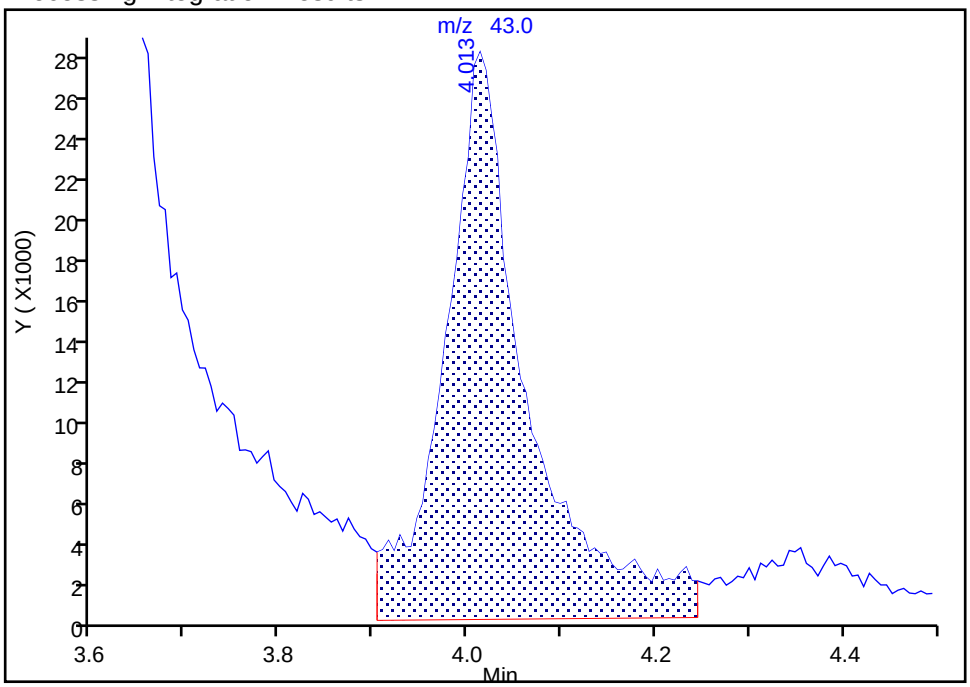
Data File:	\\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12X06.D				
Injection Date:	12-Jul-2022 16:20:30	Instrument ID:	19930		
Lims ID:	ICV LG				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

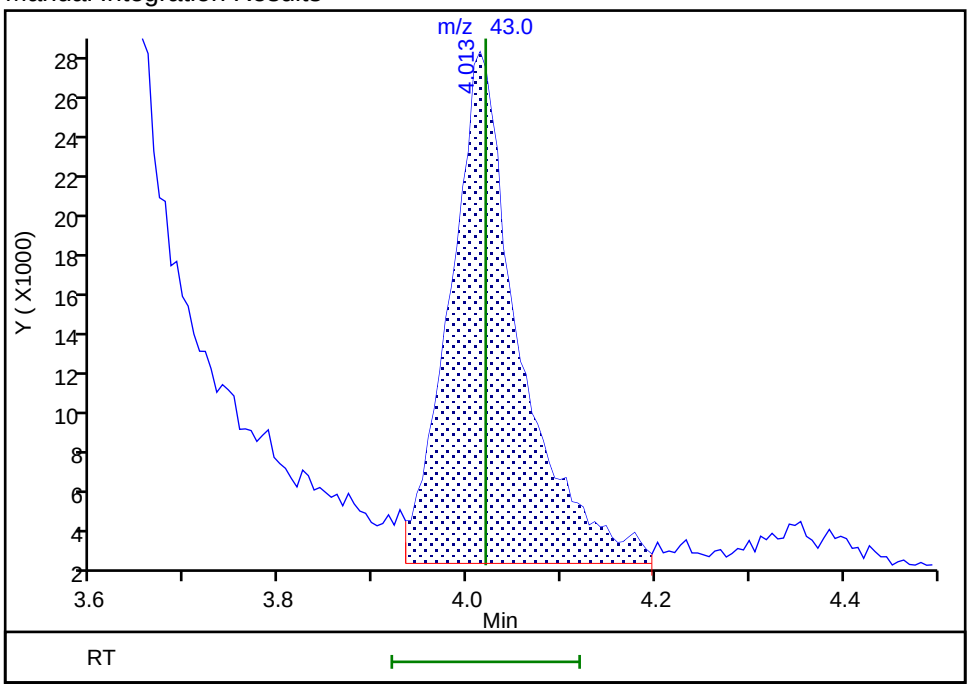
Processing Integration Results

RT: 4.01
Area: 164406
Amount: 6.682973
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 131616
Amount: 5.158634
Amount Units: ug/l



Reviewer: K4WN, 14-Jul-2022 16:30:26
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

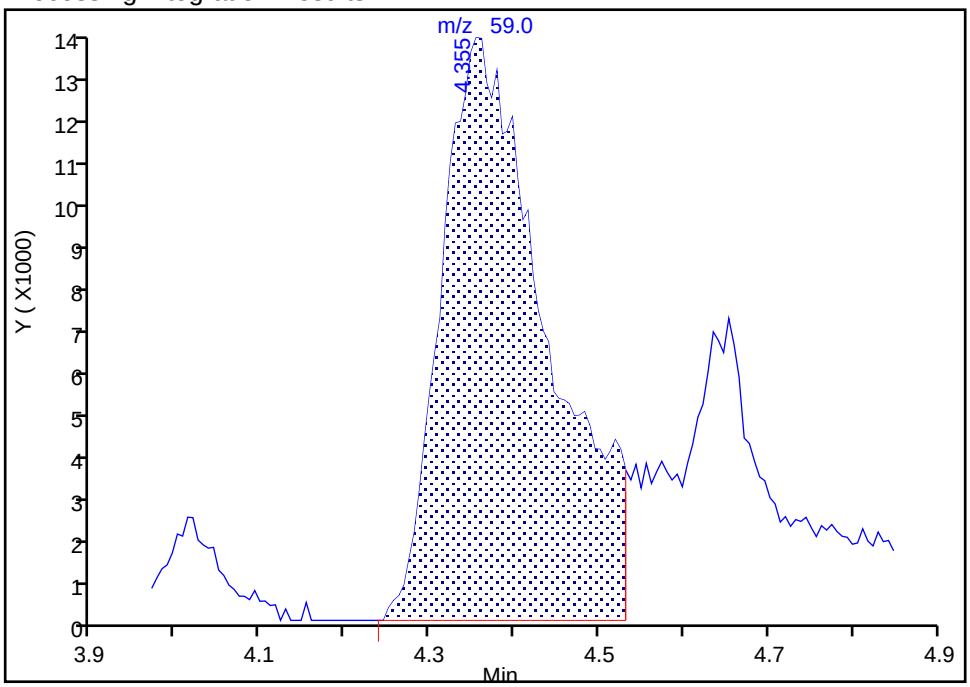
Data File: \\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12X06.D
Injection Date: 12-Jul-2022 16:20:30 Instrument ID: 19930
Lims ID: ICV LG
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

25 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

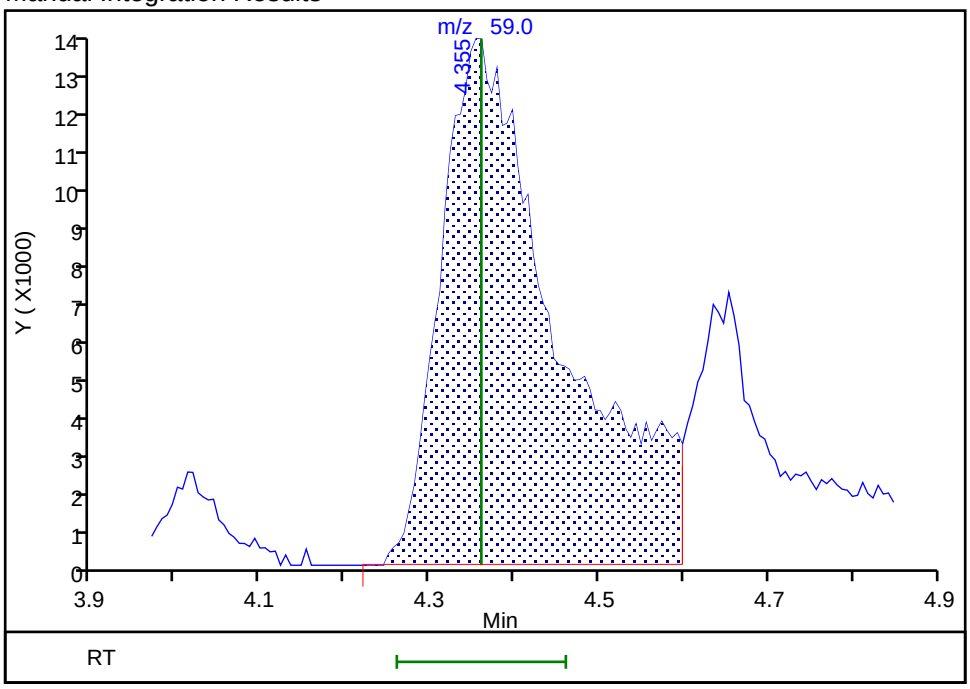
Processing Integration Results

RT: 4.35
Area: 116905
Amount: 43.227062
Amount Units: ug/l



Manual Integration Results

RT: 4.35
Area: 129857
Amount: 48.016223
Amount Units: ug/l



Reviewer: K4WN, 14-Jul-2022 16:30:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

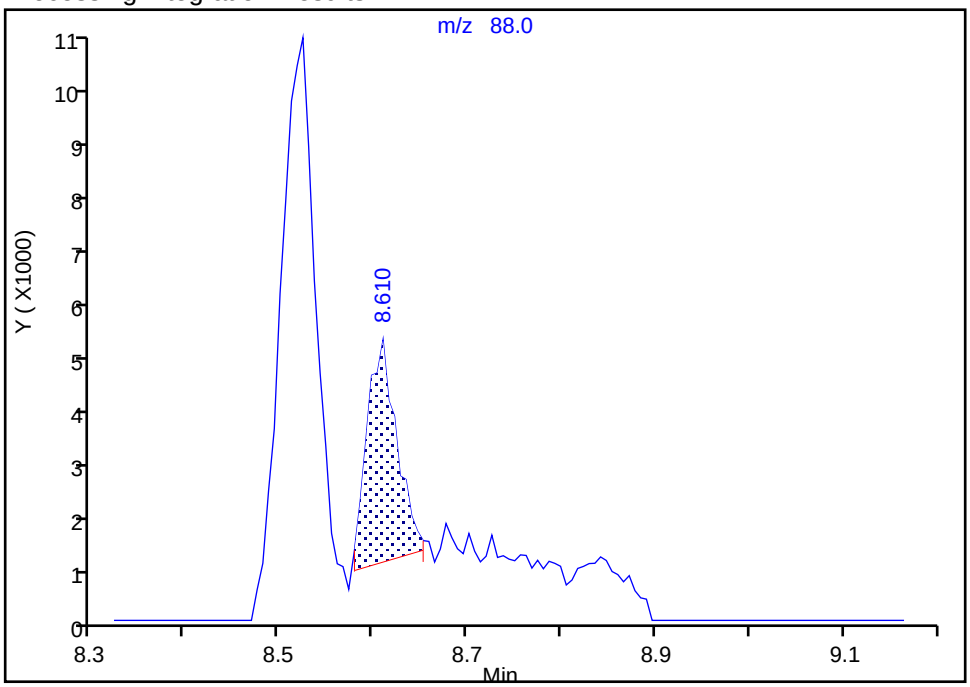
Data File:	\\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12X06.D				
Injection Date:	12-Jul-2022 16:20:30	Instrument ID:	19930		
Lims ID:	ICV LG				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

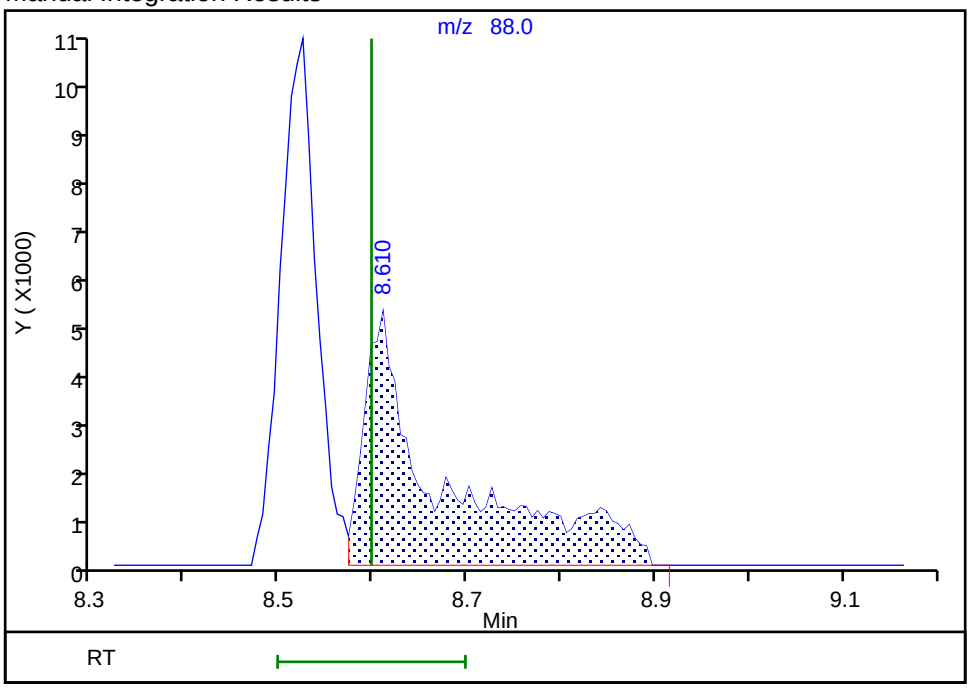
Processing Integration Results

RT: 8.61
Area: 8665
Amount: 40.119790
Amount Units: ug/l



Manual Integration Results

RT: 8.61
Area: 28549
Amount: 132.1846
Amount Units: ug/l



Reviewer: K4WN, 14-Jul-2022 16:31:10
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-291418/3 Calibration Date: 08/31/2022 10:04

Instrument ID: 19930 Calib Start Date: 07/11/2022 15:36

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 17:43

Lab File ID: IG31X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3080	0.3537	0.1000	11.5	10.0	14.8	20.0
Chloromethane	Ave	0.3498	0.4246	0.1000	12.1	10.0	21.4*	20.0
Vinyl chloride	Ave	0.3444	0.4233	0.1000	12.3	10.0	22.9*	20.0
1,3-Butadiene	Ave	0.3898	0.4729		12.1	10.0	21.3*	20.0
Bromomethane	Ave	0.2402	0.3015	0.1000	12.6	10.0	25.6*	20.0
Chloroethane	Ave	0.2025	0.2543	0.1000	12.6	10.0	25.5*	20.0
Dichlorofluoromethane	Ave	0.4693	0.5673		12.1	10.0	20.9*	20.0
Trichlorofluoromethane	Ave	0.4546	0.4915	0.1000	10.8	10.0	8.1	20.0
Ethyl ether	Ave	0.2194	0.2331		10.6	10.0	6.2	20.0
Freon 123a	Ave	0.3445	0.3637		10.6	10.0	5.6	20.0
Acrolein	Ave	2.337	1.949		417	500	-16.6	20.0
1,1-Dichloroethene	Ave	0.2535	0.2199	0.1000	8.67	10.0	-13.3	20.0
Acetone	Ave	2.759	2.453	0.1000	88.9	100	-11.1	20.0
Freon 113	Ave	0.2563	0.1141	0.1000	4.45	10.0	-55.5*	20.0
Methyl iodide	Ave	0.4459	0.4325		9.70	10.0	-3.0	20.0
Ethyl bromide	Ave	0.2291	0.2013		8.79	10.0	-12.1	20.0
Carbon disulfide	Ave	0.6342	0.5264	0.1000	8.30	10.0	-17.0	20.0
Methyl acetate	Ave	8.110	8.442	0.1000	10.4	10.0	4.1	20.0
Allyl chloride	Ave	0.3709	0.3536		9.53	10.0	-4.7	20.0
Methylene Chloride	Ave	0.2778	0.2814	0.1000	10.1	10.0	1.3	20.0
t-Butyl alcohol	Ave	0.8596	0.6905		161	200	-19.7	20.0
Acrylonitrile	Ave	3.866	3.677		23.8	25.0	-4.9	20.0
Methyl tert-butyl ether	Ave	0.6366	0.6539	0.1000	10.3	10.0	2.7	20.0
trans-1,2-Dichloroethene	Ave	0.2812	0.2645	0.1000	9.40	10.0	-6.0	20.0
n-Hexane	Ave	0.3931	0.3400		8.65	10.0	-13.5	20.0
1,1-Dichloroethane	Ave	0.5155	0.5345	0.2000	10.4	10.0	3.7	20.0
di-Isopropyl ether	Ave	0.7929	0.8586		10.8	10.0	8.3	20.0
2-Chloro-1,3-butadiene	Ave	0.3771	0.4091		10.8	10.0	8.5	20.0
Ethyl t-butyl ether	Ave	0.7349	0.7744		10.5	10.0	5.4	20.0
2-Butanone (MEK)	Ave	5.123	4.827	0.1000	94.2	100	-5.8	20.0
cis-1,2-Dichloroethene	Ave	0.3147	0.3143	0.1000	9.99	10.0	-0.1	20.0
2,2-Dichloropropane	Ave	0.4180	0.3159		7.56	10.0	-24.4*	20.0
Propionitrile	Ave	1.485	1.499		202	200	0.9	20.0
Methacrylonitrile	Ave	5.344	4.861		91.0	100	-9.0	20.0
Bromochloromethane	Ave	0.1427	0.1463		10.3	10.0	2.6	20.0
Tetrahydrofuran	Ave	1.480	1.403		47.4	50.0	-5.2	20.0
Chloroform	Ave	0.5170	0.5221	0.2000	10.1	10.0	1.0	20.0
1,1,1-Trichloroethane	Ave	0.4627	0.3873	0.1000	8.37	10.0	-16.3	20.0
Cyclohexane	Ave	0.4635	0.3017	0.1000	6.51	10.0	-34.9*	20.0
1,1-Dichloropropene	Ave	0.4023	0.4165		10.4	10.0	3.5	20.0
Carbon tetrachloride	Ave	0.4134	0.3541	0.1000	8.57	10.0	-14.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-291418/3 Calibration Date: 08/31/2022 10:04

Instrument ID: 19930 Calib Start Date: 07/11/2022 15:36

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 17:43

Lab File ID: IG31X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Ave	0.3370	0.3586		532	500	6.4	20.0
Benzene	Ave	1.211	1.271	0.5000	10.5	10.0	4.9	20.0
1,2-Dichloroethane	Ave	0.3229	0.3516	0.1000	10.9	10.0	8.9	20.0
t-Amyl methyl ether	Ave	0.6975	0.7391		10.6	10.0	6.0	20.0
n-Heptane	Ave	0.4331	0.3922		9.06	10.0	-9.4	20.0
n-Butanol	Ave	0.3095	0.3217		909	875	3.9	20.0
Trichloroethene	Ave	0.3223	0.3276	0.2000	10.2	10.0	1.7	20.0
Methylcyclohexane	Ave	0.5314	0.3941	0.1000	7.42	10.0	-25.8*	20.0
1,2-Dichloropropane	Ave	0.3127	0.3328	0.1000	10.6	10.0	6.4	20.0
Methyl methacrylate	Ave	9.618	9.330		9.70	10.0	-3.0	20.0
1,4-Dioxane	Ave	0.0687	0.0755	0.0050	550	500	10.0	20.0
Dibromomethane	Ave	0.1498	0.1654		11.0	10.0	10.4	20.0
Bromodichloromethane	Ave	0.3709	0.3959	0.2000	10.7	10.0	6.8	20.0
2-Nitropropane	Ave	2.839	2.868		50.5	50.0	1.0	20.0
1-Bromo-2-chloroethane	Ave	0.3192	0.3715		11.6	10.0	16.4	20.0
cis-1,3-Dichloropropene	Ave	0.4443	0.4793	0.2000	10.8	10.0	7.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	12.38	13.10	0.1000	106	100	5.8	20.0
Toluene	Ave	1.026	0.9529	0.4000	9.29	10.0	-7.1	20.0
trans-1,3-Dichloropropene	Ave	0.4679	0.4940	0.1000	10.6	10.0	5.6	20.0
Ethyl methacrylate	Ave	0.3537	0.3917		11.1	10.0	10.7	20.0
1,1,2-Trichloroethane	Ave	0.2891	0.2869	0.1000	9.92	10.0	-0.8	20.0
Tetrachloroethene	Ave	0.4896	0.4363	0.2000	8.91	10.0	-10.9	20.0
1,3-Dichloropropane	Ave	0.4836	0.4915		10.2	10.0	1.6	20.0
2-Hexanone	Ave	8.960	9.182	0.1000	102	100	2.5	20.0
Dibromochloromethane	Ave	0.3553	0.3610		10.2	10.0	1.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.2676	0.2748	0.1000	10.3	10.0	2.7	20.0
1-Chlorohexane	Ave	0.5742	0.5300		9.23	10.0	-7.7	20.0
Chlorobenzene	Ave	1.150	1.103	0.5000	9.58	10.0	-4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3931	0.3942		10.0	10.0	0.3	20.0
Ethylbenzene	Ave	1.910	1.904	0.1000	9.97	10.0	-0.3	20.0
m&p-Xylene	Ave	0.7426	0.7385	0.1000	19.9	20.0	-0.6	20.0
o-Xylene	Ave	0.7081	0.7126	0.3000	10.1	10.0	0.6	20.0
Styrene	Ave	1.120	1.188	0.3000	10.6	10.0	6.1	20.0
Bromoform	Ave	0.2123	0.2199	0.1000	10.4	10.0	3.6	20.0
Isopropylbenzene	Ave	1.839	1.850	0.1000	10.1	10.0	0.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6437	0.6686	0.3000	10.4	10.0	3.9	20.0
Bromobenzene	Ave	0.8296	0.7601		9.16	10.0	-8.4	20.0
trans-1,4-Dichloro-2-butene	Ave	4.382	4.016		91.6	100	-8.4	20.0
1,2,3-Trichloropropane	Ave	0.1700	0.1760		10.4	10.0	3.5	20.0
N-Propylbenzene	Ave	3.976	3.880		9.76	10.0	-2.4	20.0
2-Chlorotoluene	Ave	0.8199	0.7746		9.45	10.0	-5.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-291418/3 Calibration Date: 08/31/2022 10:04

Instrument ID: 19930 Calib Start Date: 07/11/2022 15:36

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 17:43

Lab File ID: IG31X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.781	2.700		9.71	10.0	-2.9	20.0
4-Chlorotoluene	Ave	0.8366	0.8032		9.60	10.0	-4.0	20.0
tert-Butylbenzene	Ave	0.6226	0.5972		9.59	10.0	-4.1	20.0
Pentachloroethane	Ave	0.5041	0.5322		10.6	10.0	5.6	20.0
1,2,4-Trimethylbenzene	Ave	2.764	2.756		9.97	10.0	-0.3	20.0
sec-Butylbenzene	Ave	3.595	3.406		9.48	10.0	-5.2	20.0
1,3-Dichlorobenzene	Ave	1.603	1.517	0.6000	9.46	10.0	-5.4	20.0
p-Isopropyltoluene	Ave	3.028	2.985		9.85	10.0	-1.5	20.0
1,4-Dichlorobenzene	Ave	1.656	1.537	0.5000	9.29	10.0	-7.1	20.0
1,2,3-Trimethylbenzene	Ave	1.274	1.219		9.57	10.0	-4.3	20.0
Benzyl chloride	Ave	0.2416	0.2587		10.7	10.0	7.1	20.0
n-Butylbenzene	Ave	1.444	1.526		10.6	10.0	5.6	20.0
1,2-Dichlorobenzene	Ave	1.490	1.456	0.4000	9.77	10.0	-2.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0918	0.0863	0.0500	9.39	10.0	-6.1	20.0
1,3,5-Trichlorobenzene	Ave	1.093	1.001		9.15	10.0	-8.5	20.0
1,2,4-Trichlorobenzene	Ave	0.8809	0.8079	0.2000	9.17	10.0	-8.3	20.0
Hexachlorobutadiene	Ave	0.4162	0.3294		7.92	10.0	-20.8*	20.0
Naphthalene	Ave	1.626	1.449		8.91	10.0	-10.9	20.0
1,2,3-Trichlorobenzene	Ave	0.7814	0.6311		8.08	10.0	-19.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2511	0.2567		10.2	10.0	2.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0516	0.0520		10.1	10.0	0.9	20.0
Toluene-d8 (Surr)	Ave	1.298	1.261		9.71	10.0	-2.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4758	0.4924		10.3	10.0	3.5	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 31-Aug-2022 10:04:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-003
Misc. Info.: CCVIS VSTD10
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 09:18:08 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:18:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.940	1.940	0.000	99	669817	10.0	11.5	
4 Chloromethane	50	2.136	2.136	0.000	99	804086	10.0	12.1	
5 Vinyl chloride	62	2.245	2.245	0.000	98	801564	10.0	12.3	
6 Butadiene	39	2.264	2.264	0.000	84	895376	10.0	12.1	
7 Bromomethane	94	2.593	2.593	0.000	90	570947	10.0	12.6	
8 Chloroethane	64	2.696	2.696	0.000	100	481445	10.0	12.6	
9 Dichlorofluoromethane	67	2.904	2.904	0.000	97	1074234	10.0	12.1	
10 Trichlorofluoromethane	101	2.946	2.946	0.000	97	930660	10.0	10.8	
11 Ethyl ether	59	3.239	3.239	0.000	92	441512	10.0	10.6	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.306	0.000	94	688664	10.0	10.6	
14 Acrolein	56	3.416	3.416	0.000	100	3384704	500.0	416.9	
15 1,1-Dichloroethene	96	3.556	3.556	0.000	98	416330	10.0	8.67	
16 Acetone	43	3.574	3.574	0.000	100	852117	100.0	88.9	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.611	3.611	0.000	76	215987	10.0	4.45	M
18 Iodomethane	142	3.757	3.757	0.000	99	818890	10.0	9.70	
19 Ethyl bromide	108	3.788	3.788	0.000	98	381176	10.0	8.79	
20 Carbon disulfide	76	3.861	3.861	0.000	99	996686	10.0	8.30	
23 Methyl acetate	43	4.001	4.001	0.000	97	293253	10.0	10.4	M
24 3-Chloro-1-propene	41	4.032	4.032	0.000	92	669526	10.0	9.53	
25 Methylene Chloride	84	4.221	4.221	0.000	92	532912	10.0	10.1	
* 26 t-Butyl alcohol-d10 (IS)	65	4.251	4.251	0.000	98	173693	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.355	4.355	0.000	98	479769	200.0	160.7	M
28 Acrylonitrile	53	4.556	4.556	0.000	98	319318	25.0	23.8	
29 Methyl tert-butyl ether	73	4.635	4.635	0.000	96	1238182	10.0	10.3	
30 trans-1,2-Dichloroethene	96	4.647	4.647	0.000	99	500758	10.0	9.40	
31 Hexane	57	5.062	5.062	0.000	94	643852	10.0	8.65	
32 1,1-Dichloroethane	63	5.293	5.293	0.000	96	1012112	10.0	10.4	
35 Isopropyl ether	45	5.361	5.361	0.000	94	1625834	10.0	10.8	
36 2-Chloro-1,3-butadiene	53	5.403	5.403	0.000	91	774586	10.0	10.8	
37 Tert-butyl ethyl ether	59	5.891	5.891	0.000	97	1466345	10.0	10.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.086	6.086	0.000	100	1676868	100.0	94.2	
39 cis-1,2-Dichloroethene	96	6.123	6.123	0.000	81	595124	10.0	9.99	
40 2,2-Dichloropropane	77	6.135	6.135	0.000	85	598261	10.0	7.56	
43 Propionitrile	54	6.171	6.171	0.000	99	1041628	200.0	201.9	
45 Methacrylonitrile	67	6.385	6.385	0.000	90	1688528	100.0	91.0	
46 Chlorobromomethane	128	6.452	6.452	0.000	94	277044	10.0	10.3	
47 Tetrahydrofuran	71	6.458	6.458	0.000	78	243719	50.0	47.4	
48 Chloroform	83	6.604	6.604	0.000	93	988539	10.0	10.1	
$ 49 Dibromofluoromethane (Surr)	113	6.811	6.811	0.000	94	485982	10.0	10.2	
50 1,1,1-Trichloroethane	97	6.824	6.824	0.000	99	733395	10.0	8.37	
51 Cyclohexane	56	6.927	6.927	0.000	90	571243	10.0	6.51	
53 1,1-Dichloropropene	75	7.037	7.037	0.000	97	788582	10.0	10.4	
54 Carbon tetrachloride	117	7.043	7.043	0.000	65	670501	10.0	8.57	
55 Isobutyl alcohol	41	7.177	7.177	0.000	93	622887	500.0	532.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	97	98557	10.0	10.1	
57 Benzene	78	7.299	7.299	0.000	96	2406191	10.0	10.5	
58 1,2-Dichloroethane	62	7.372	7.372	0.000	97	665837	10.0	10.9	
60 Tert-amyl methyl ether	73	7.494	7.494	0.000	99	1399466	10.0	10.6	
* 61 Fluorobenzene (IS)	96	7.702	7.702	0.000	99	1893540	10.0	10.0	
62 n-Heptane	43	7.714	7.714	0.000	92	742717	10.0	9.06	
63 n-Butanol	56	8.061	8.061	0.000	90	977755	875.0	909.3	
64 Trichloroethene	95	8.183	8.183	0.000	98	620368	10.0	10.2	
65 Methylcyclohexane	83	8.494	8.494	0.000	94	746292	10.0	7.42	
66 1,2-Dichloropropane	63	8.506	8.506	0.000	85	630194	10.0	10.6	
67 Methyl methacrylate	69	8.592	8.592	0.000	89	324118	10.0	9.70	
68 1,4-Dioxane	88	8.598	8.598	0.000	34	131111	500.0	549.8	Ma
69 Dibromomethane	93	8.616	8.616	0.000	97	313172	10.0	11.0	
71 Dichlorobromomethane	83	8.854	8.854	0.000	99	749686	10.0	10.7	
72 2-Nitropropane	41	9.116	9.116	0.000	98	498113	50.0	50.5	
75 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	99	703507	10.0	11.6	
76 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	96	907551	10.0	10.8	
77 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	97	4551154	100.0	105.8	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	1999237	10.0	9.71	
79 Toluene	92	9.780	9.780	0.000	98	1511155	10.0	9.29	
97 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	93	783383	10.0	10.6	
99 Ethyl methacrylate	69	10.097	10.097	0.000	89	621123	10.0	11.1	
100 1,1,2-Trichloroethane	97	10.238	10.238	0.000	91	454902	10.0	9.92	
101 Tetrachloroethene	166	10.329	10.329	0.000	98	691929	10.0	8.91	
102 1,3-Dichloropropane	76	10.402	10.402	0.000	90	779448	10.0	10.2	
103 2-Hexanone	43	10.445	10.445	0.000	97	3189573	100.0	102.5	
105 Chlorodibromomethane	129	10.616	10.616	0.000	90	572461	10.0	10.2	
106 Ethylene Dibromide	107	10.725	10.725	0.000	99	435856	10.0	10.3	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	86	1585808	10.0	10.0	
108 1-Chlorohexane	91	11.164	11.164	0.000	97	840502	10.0	9.23	
109 Chlorobenzene	112	11.183	11.183	0.000	95	1748501	10.0	9.58	
111 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	95	625048	10.0	10.0	
112 Ethylbenzene	91	11.268	11.268	0.000	98	3019341	10.0	9.97	
113 m-Xylene & p-Xylene	106	11.384	11.384	0.000	100	2342206	20.0	19.9	
114 o-Xylene	106	11.713	11.713	0.000	97	1129971	10.0	10.1	
115 Styrene	104	11.725	11.725	0.000	95	1884500	10.0	10.6	
116 Bromoform	173	11.884	11.884	0.000	97	348742	10.0	10.4	
117 Isopropylbenzene	105	12.012	12.012	0.000	96	2933015	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 120 4-Bromofluorobenzene (Surr)	95	12.152	12.152	0.000	91	780842	10.0	10.3	
121 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	93	622466	10.0	10.4	
122 Bromobenzene	156	12.274	12.274	0.000	94	707643	10.0	9.16	
123 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	92	1395099	100.0	91.6	
124 1,2,3-Trichloropropane	110	12.298	12.298	0.000	81	163807	10.0	10.4	
125 N-Propylbenzene	91	12.335	12.335	0.000	99	3611753	10.0	9.76	
126 2-Chlorotoluene	126	12.414	12.414	0.000	97	721081	10.0	9.45	
127 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	2513783	10.0	9.71	
128 4-Chlorotoluene	126	12.505	12.505	0.000	98	747749	10.0	9.60	
129 tert-Butylbenzene	134	12.713	12.713	0.000	93	555953	10.0	9.59	
130 Pentachloroethane	167	12.749	12.749	0.000	93	495396	10.0	10.6	
131 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	2566022	10.0	9.97	
132 sec-Butylbenzene	105	12.877	12.877	0.000	94	3171065	10.0	9.48	
133 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	1412445	10.0	9.46	
134 4-Isopropyltoluene	119	12.987	12.987	0.000	97	2778378	10.0	9.85	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	930931	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.054	13.054	0.000	94	1431297	10.0	9.29	
137 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	1134991	10.0	9.57	
138 Benzyl chloride	126	13.127	13.127	0.000	98	240863	10.0	10.7	
139 n-Butylbenzene	92	13.274	13.274	0.000	97	1420457	10.0	10.6	
140 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	1355622	10.0	9.77	
142 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	88	80329	10.0	9.39	
143 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	931499	10.0	9.15	
144 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	752058	10.0	9.17	
145 Hexachlorobutadiene	225	14.481	14.481	0.000	97	306675	10.0	7.92	
146 Naphthalene	128	14.584	14.584	0.000	97	1348872	10.0	8.91	
147 1,2,3-Trichlorobenzene	180	14.725	14.725	0.000	96	587532	10.0	8.08	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#2_826_00057	Amount Added: 20.00	Units: uL	
MSV_LL_#1_826_00052	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00110	Amount Added: 20.00	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

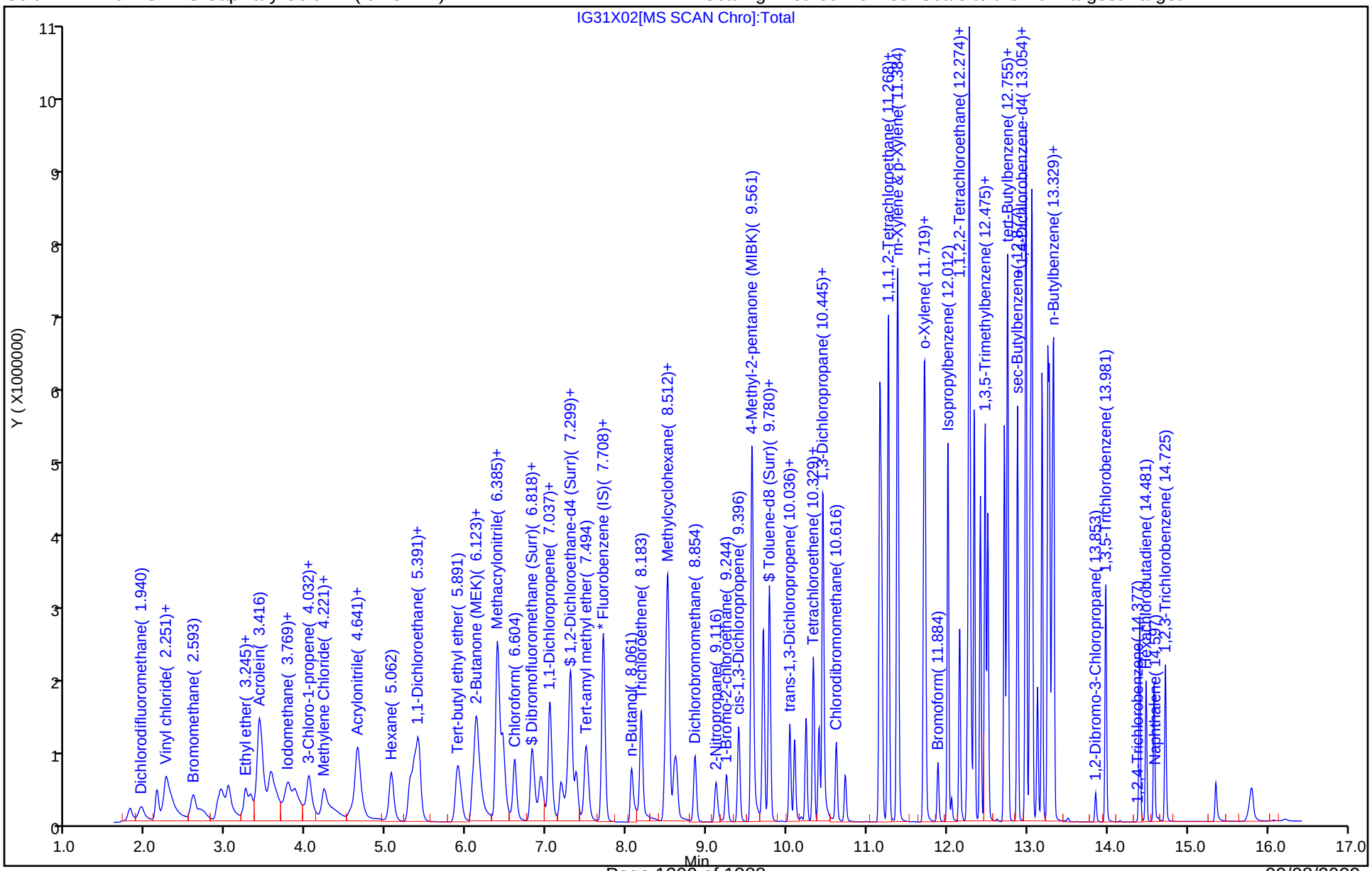
Report Date: 01-Sep-2022 09:18:09 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X02.D

Injection Date:	31-Aug-2022 10:04:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	CCVIS VSTD10			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

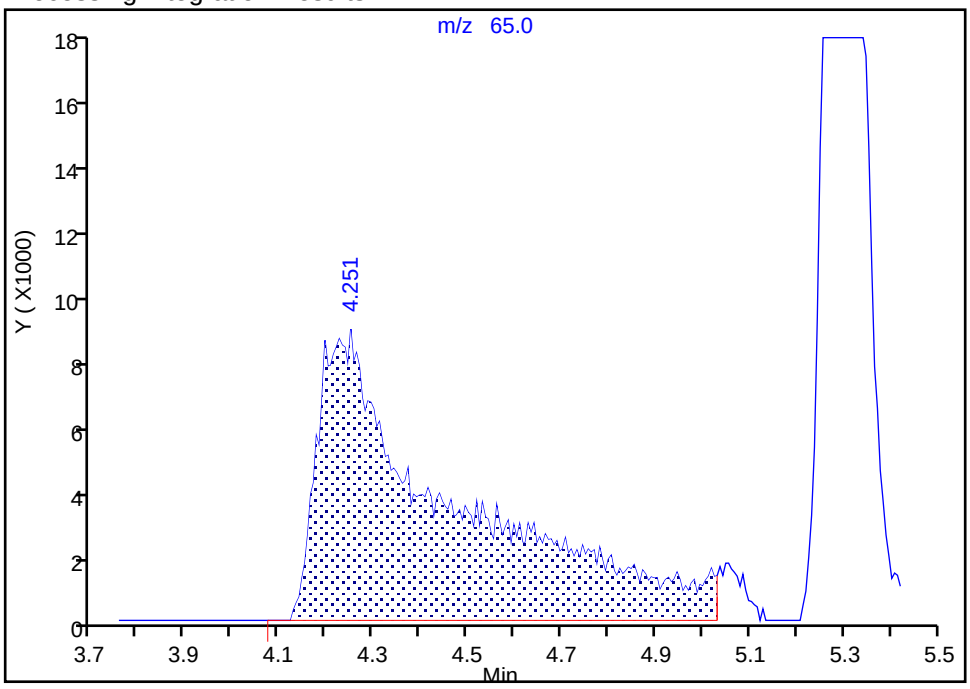
Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X02.D
Injection Date: 31-Aug-2022 10:04:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

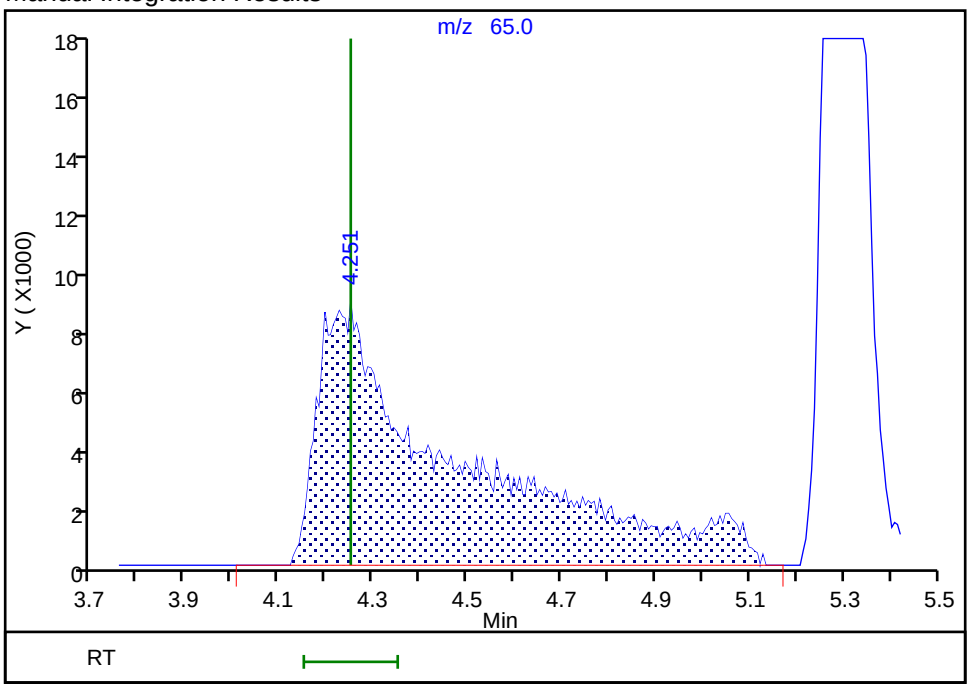
Processing Integration Results

RT: 4.25
Area: 167824
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.25
Area: 173693
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 31-Aug-2022 10:34:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

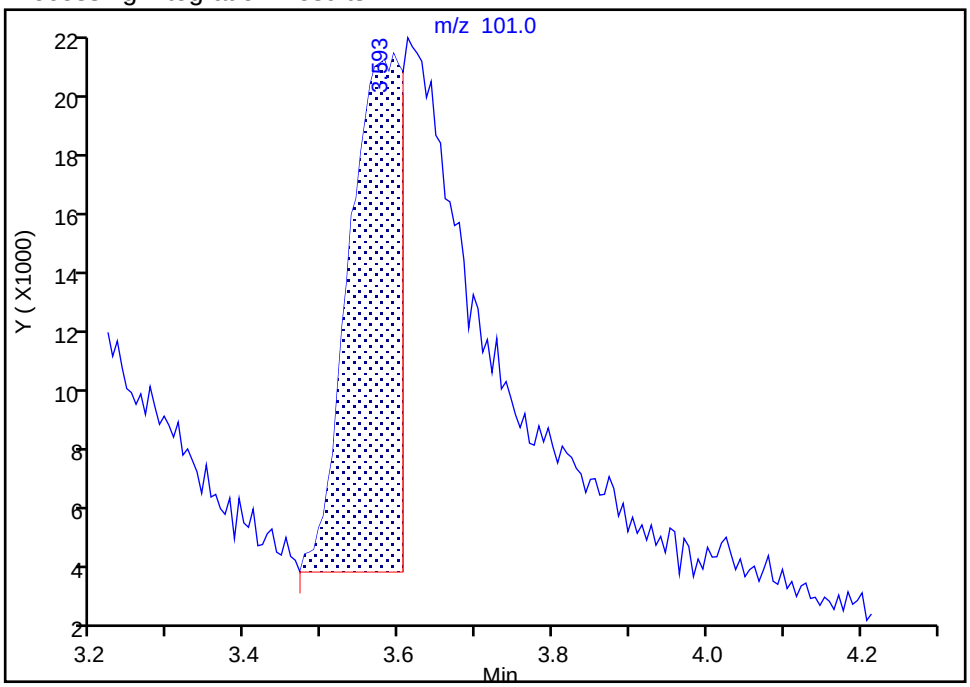
Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X02.D
Injection Date: 31-Aug-2022 10:04:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

17 1,1,2-Trichloro-1,2,2-trifluoroe, CAS: 76-13-1

Signal: 1

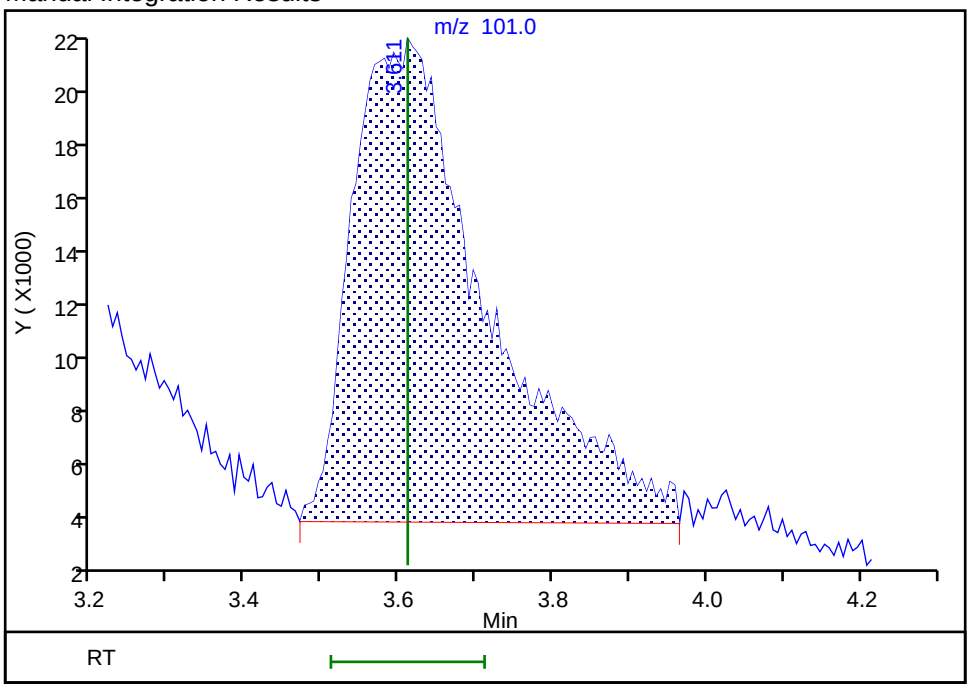
Processing Integration Results

RT: 3.59
Area: 81748
Amount: 1.684303
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 215987
Amount: 4.450109
Amount Units: ug/l



Reviewer: DVW2, 31-Aug-2022 10:33:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

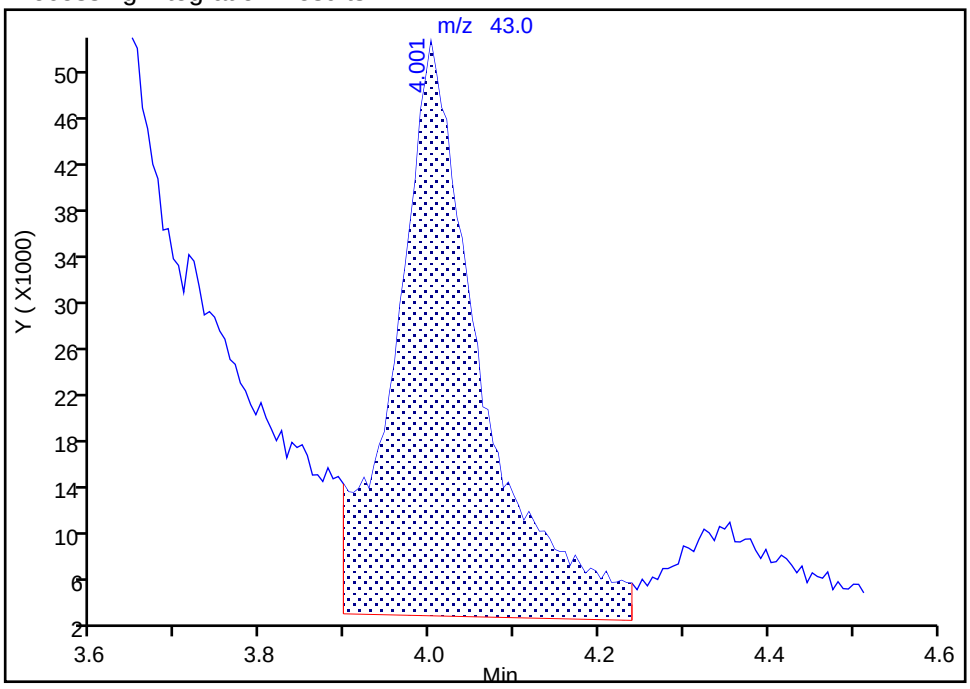
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X02.D				
Injection Date:	31-Aug-2022 10:04:30	Instrument ID:	19930		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Methyl acetate, CAS: 79-20-9

Signal: 1

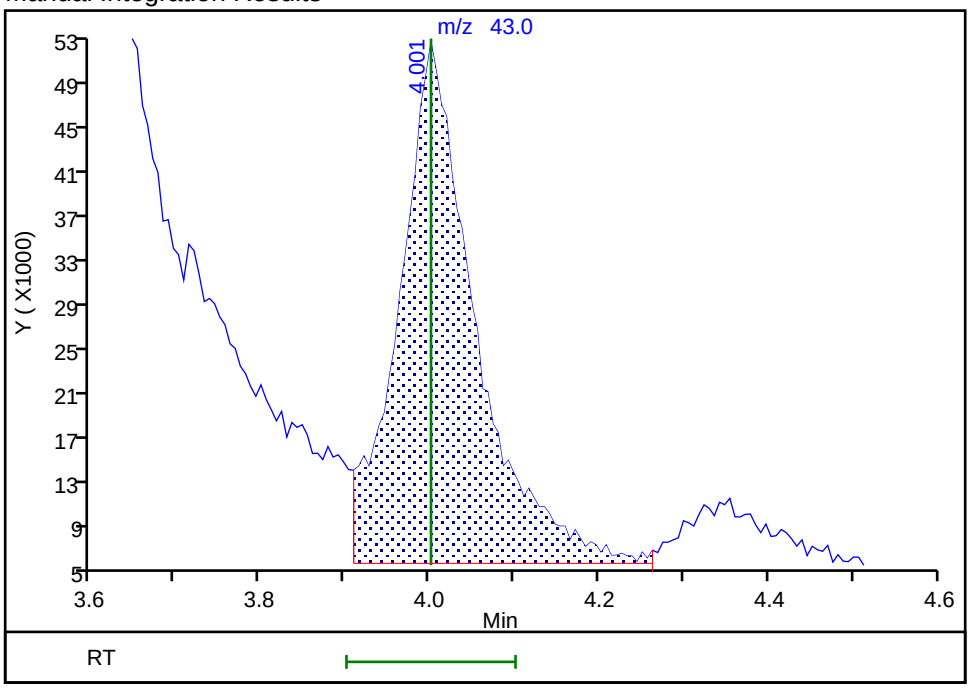
Processing Integration Results

RT: 4.00
Area: 345030
Amount: 12.675359
Amount Units: ug/l



Manual Integration Results

RT: 4.00
Area: 293253
Amount: 10.409207
Amount Units: ug/l



Reviewer: DVW2, 31-Aug-2022 10:34:15
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

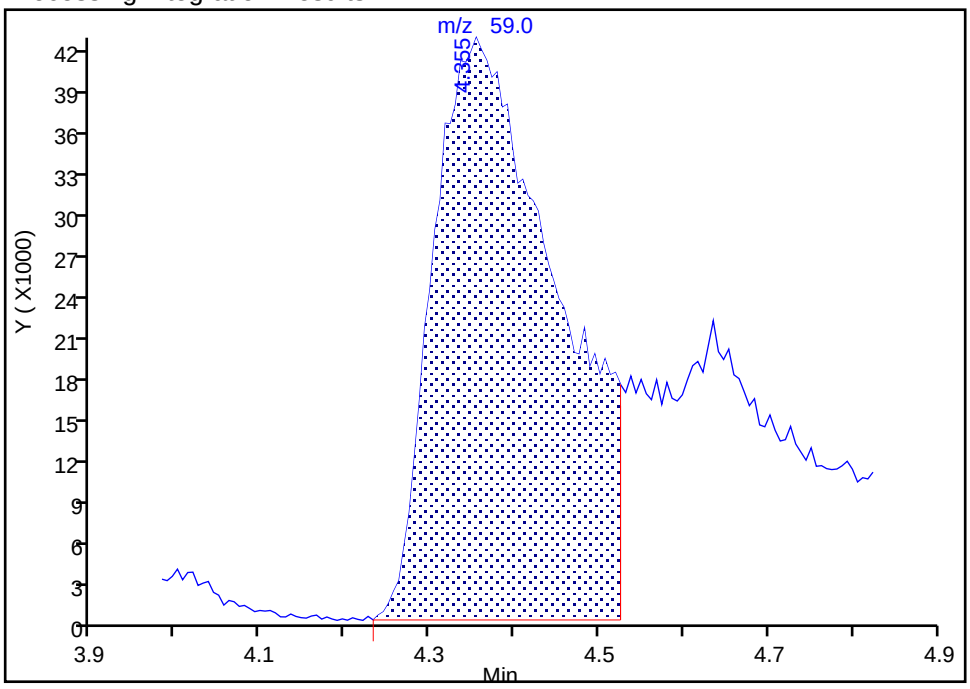
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X02.D				
Injection Date:	31-Aug-2022 10:04:30	Instrument ID:	19930		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

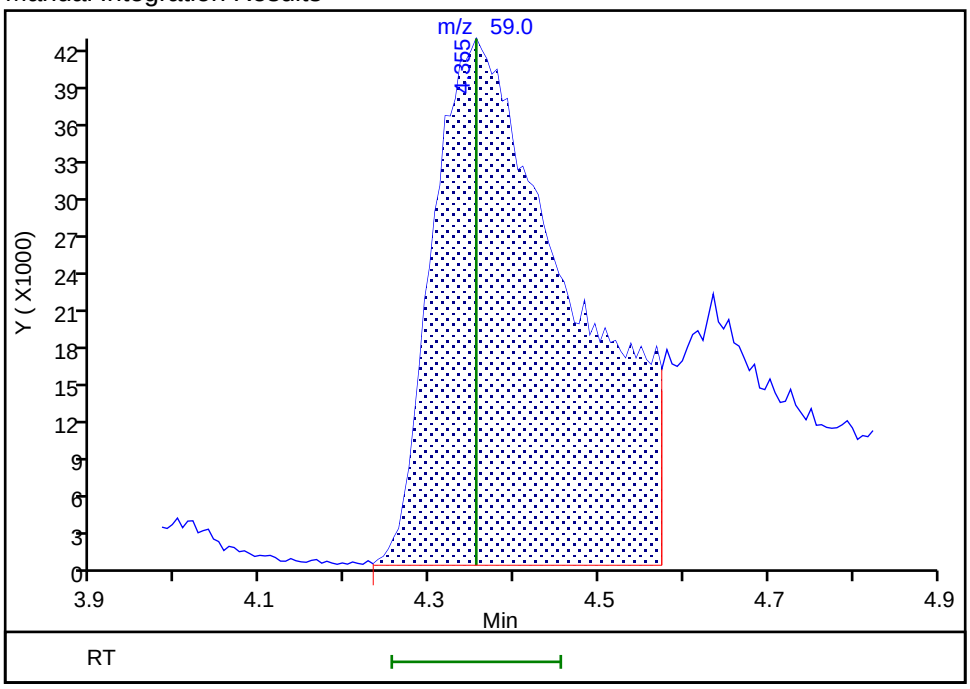
Processing Integration Results

RT: 4.35
Area: 429090
Amount: 143.6879
Amount Units: ug/l



Manual Integration Results

RT: 4.35
Area: 479769
Amount: 160.6586
Amount Units: ug/l



Reviewer: DVW2, 31-Aug-2022 10:35:24
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

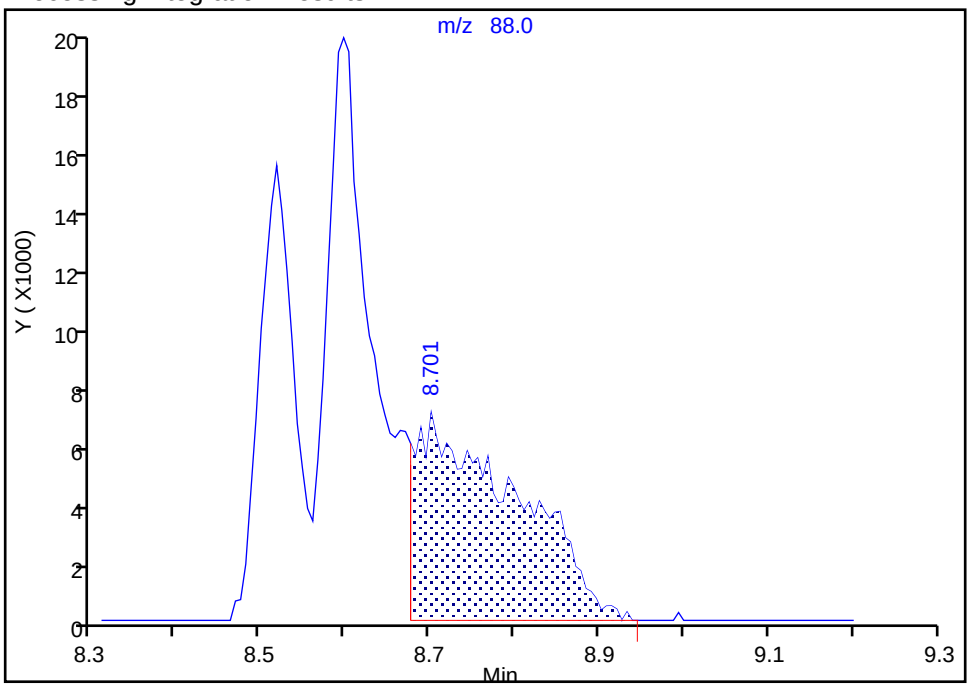
Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X02.D
Injection Date: 31-Aug-2022 10:04:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

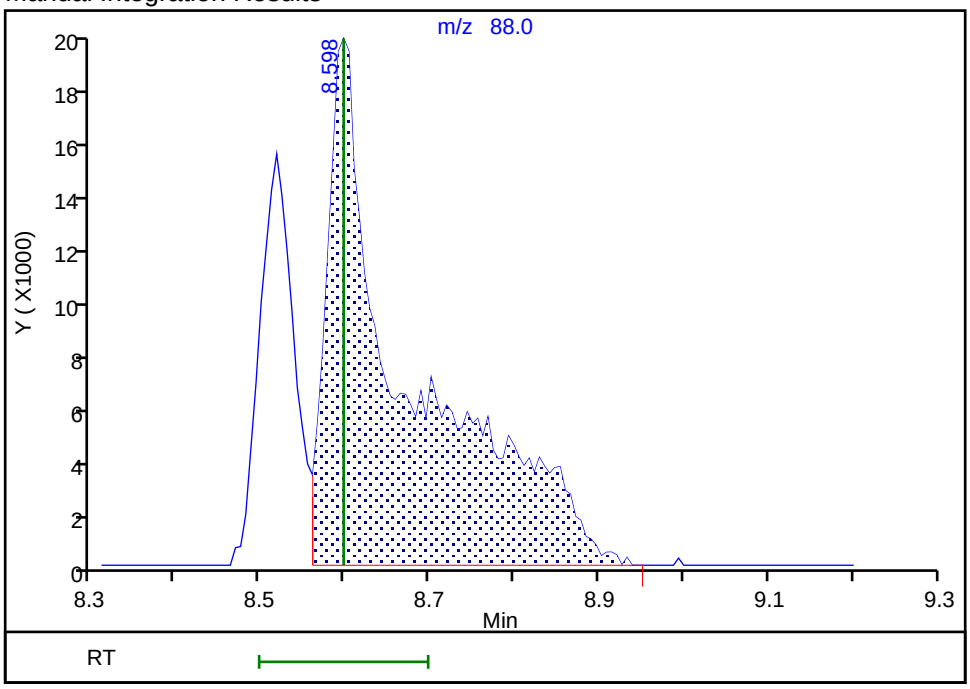
Processing Integration Results

RT: 8.70
Area: 58279
Amount: 244.3719
Amount Units: ug/l



Manual Integration Results

RT: 8.60
Area: 131111
Amount: 549.7666
Amount Units: ug/l



Reviewer: DVW2, 31-Aug-2022 10:35:58
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-291906/3 Calibration Date: 09/01/2022 11:50

Instrument ID: 19930 Calib Start Date: 07/11/2022 15:36

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 17:43

Lab File ID: IS01X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3080	0.3092	0.1000	10.0	10.0	0.4	20.0
Chloromethane	Ave	0.3498	0.3505	0.1000	10.0	10.0	0.2	20.0
Vinyl chloride	Ave	0.3444	0.3560	0.1000	10.3	10.0	3.4	20.0
1,3-Butadiene	Ave	0.3898	0.3765		9.66	10.0	-3.4	20.0
Bromomethane	Ave	0.2402	0.2614	0.1000	10.9	10.0	8.8	20.0
Chloroethane	Ave	0.2025	0.2087	0.1000	10.3	10.0	3.0	20.0
Dichlorofluoromethane	Ave	0.4693	0.4831		10.3	10.0	2.9	20.0
Trichlorofluoromethane	Ave	0.4546	0.4240	0.1000	9.33	10.0	-6.7	20.0
Ethyl ether	Ave	0.2194	0.2088		9.52	10.0	-4.9	20.0
Freon 123a	Ave	0.3445	0.3277		9.51	10.0	-4.9	20.0
Acrolein	Ave	2.337	2.054		439	500	-12.1	20.0
1,1-Dichloroethene	Ave	0.2535	0.1777	0.1000	7.01	10.0	-29.9*	20.0
Acetone	Ave	2.759	2.490	0.1000	90.3	100	-9.7	20.0
Freon 113	Ave	0.2563	0.0746*	0.1000	2.91	10.0	-70.9*	20.0
Methyl iodide	Ave	0.4459	0.4157		9.32	10.0	-6.8	20.0
Ethyl bromide	Ave	0.2291	0.1749		7.63	10.0	-23.7*	20.0
Carbon disulfide	Ave	0.6342	0.4675	0.1000	7.37	10.0	-26.3*	20.0
Methyl acetate	Ave	8.110	8.761	0.1000	10.8	10.0	8.0	20.0
Allyl chloride	Ave	0.3709	0.3168		8.54	10.0	-14.6	20.0
Methylene Chloride	Ave	0.2778	0.2749	0.1000	9.90	10.0	-1.0	20.0
t-Butyl alcohol	Ave	0.8596	0.6680		155	200	-22.3*	20.0
Acrylonitrile	Ave	3.866	3.675		23.8	25.0	-4.9	20.0
Methyl tert-butyl ether	Ave	0.6366	0.5678	0.1000	8.92	10.0	-10.8	20.0
trans-1,2-Dichloroethene	Ave	0.2812	0.2465	0.1000	8.76	10.0	-12.4	20.0
n-Hexane	Ave	0.3931	0.3542		9.01	10.0	-9.9	20.0
1,1-Dichloroethane	Ave	0.5155	0.4984	0.2000	9.67	10.0	-3.3	20.0
di-Isopropyl ether	Ave	0.7929	0.7782		9.81	10.0	-1.9	20.0
2-Chloro-1,3-butadiene	Ave	0.3771	0.3878		10.3	10.0	2.8	20.0
Ethyl t-butyl ether	Ave	0.7349	0.6671		9.08	10.0	-9.2	20.0
2-Butanone (MEK)	Ave	5.123	5.086	0.1000	99.3	100	-0.7	20.0
cis-1,2-Dichloroethene	Ave	0.3147	0.3046	0.1000	9.68	10.0	-3.2	20.0
2,2-Dichloropropane	Ave	0.4180	0.2793		6.68	10.0	-33.2*	20.0
Propionitrile	Ave	1.485	1.538		207	200	3.5	20.0
Methacrylonitrile	Ave	5.344	5.167		96.7	100	-3.3	20.0
Bromochloromethane	Ave	0.1427	0.1416		9.93	10.0	-0.7	20.0
Tetrahydrofuran	Ave	1.480	1.466		49.5	50.0	-1.0	20.0
Chloroform	Ave	0.5170	0.5150	0.2000	9.96	10.0	-0.4	20.0
1,1,1-Trichloroethane	Ave	0.4627	0.3446	0.1000	7.45	10.0	-25.5*	20.0
Cyclohexane	Ave	0.4635	0.2801	0.1000	6.04	10.0	-39.6*	20.0
1,1-Dichloropropene	Ave	0.4023	0.3961		9.85	10.0	-1.5	20.0
Carbon tetrachloride	Ave	0.4134	0.3284	0.1000	7.94	10.0	-20.6*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-291906/3 Calibration Date: 09/01/2022 11:50

Instrument ID: 19930 Calib Start Date: 07/11/2022 15:36

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 17:43

Lab File ID: IS01X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Ave	0.3370	0.3796		563	500	12.7	20.0
Benzene	Ave	1.211	1.201	0.5000	9.92	10.0	-0.8	20.0
1,2-Dichloroethane	Ave	0.3229	0.3261	0.1000	10.1	10.0	1.0	20.0
t-Amyl methyl ether	Ave	0.6975	0.6457		9.26	10.0	-7.4	20.0
n-Heptane	Ave	0.4331	0.4014		9.27	10.0	-7.3	20.0
n-Butanol	Ave	0.3095	0.3471		981	875	12.1	20.0
Trichloroethene	Ave	0.3223	0.3185	0.2000	9.88	10.0	-1.2	20.0
Methylcyclohexane	Ave	0.5314	0.3895	0.1000	7.33	10.0	-26.7*	20.0
1,2-Dichloropropane	Ave	0.3127	0.3152	0.1000	10.1	10.0	0.8	20.0
Methyl methacrylate	Ave	9.618	9.241		9.61	10.0	-3.9	20.0
1,4-Dioxane	Ave	0.0687	0.0848	0.0050	618	500	23.6*	20.0
Dibromomethane	Ave	0.1498	0.1546		10.3	10.0	3.2	20.0
Bromodichloromethane	Ave	0.3709	0.3788	0.2000	10.2	10.0	2.1	20.0
2-Nitropropane	Ave	2.839	2.884		50.8	50.0	1.6	20.0
1-Bromo-2-chloroethane	Ave	0.3192	0.3356		10.5	10.0	5.1	20.0
cis-1,3-Dichloropropene	Ave	0.4443	0.4585	0.2000	10.3	10.0	3.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	12.38	13.15	0.1000	106	100	6.2	20.0
Toluene	Ave	1.026	1.007	0.4000	9.82	10.0	-1.8	20.0
trans-1,3-Dichloropropene	Ave	0.4679	0.5036	0.1000	10.8	10.0	7.6	20.0
Ethyl methacrylate	Ave	0.3537	0.4071		11.5	10.0	15.1	20.0
1,1,2-Trichloroethane	Ave	0.2891	0.2982	0.1000	10.3	10.0	3.1	20.0
Tetrachloroethene	Ave	0.4896	0.4666	0.2000	9.53	10.0	-4.7	20.0
1,3-Dichloropropane	Ave	0.4836	0.5058		10.5	10.0	4.6	20.0
2-Hexanone	Ave	8.960	9.315	0.1000	104	100	4.0	20.0
Dibromochloromethane	Ave	0.3553	0.3761		10.6	10.0	5.9	20.0
1,2-Dibromoethane (EDB)	Ave	0.2676	0.2874	0.1000	10.7	10.0	7.4	20.0
1-Chlorohexane	Ave	0.5742	0.5677		9.89	10.0	-1.1	20.0
Chlorobenzene	Ave	1.150	1.169	0.5000	10.2	10.0	1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3931	0.3998		10.2	10.0	1.7	20.0
Ethylbenzene	Ave	1.910	1.947	0.1000	10.2	10.0	1.9	20.0
m&p-Xylene	Ave	0.7426	0.7860	0.1000	21.2	20.0	5.8	20.0
o-Xylene	Ave	0.7081	0.7180	0.3000	10.1	10.0	1.4	20.0
Styrene	Ave	1.120	1.186	0.3000	10.6	10.0	5.9	20.0
Bromoform	Ave	0.2123	0.2160	0.1000	10.2	10.0	1.8	20.0
Isopropylbenzene	Ave	1.839	1.887	0.1000	10.3	10.0	2.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6437	0.7654	0.3000	11.9	10.0	18.9	20.0
Bromobenzene	Ave	0.8296	0.9062		10.9	10.0	9.2	20.0
trans-1,4-Dichloro-2-butene	Ave	4.382	4.273		97.5	100	-2.5	20.0
1,2,3-Trichloropropane	Ave	0.1700	0.1984		11.7	10.0	16.7	20.0
N-Propylbenzene	Ave	3.976	4.572		11.5	10.0	15.0	20.0
2-Chlorotoluene	Ave	0.8199	0.9193		11.2	10.0	12.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Lab Sample ID: CCVIS 410-291906/3 Calibration Date: 09/01/2022 11:50

Instrument ID: 19930 Calib Start Date: 07/11/2022 15:36

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 17:43

Lab File ID: IS01X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.781	3.113		11.2	10.0	11.9	20.0
4-Chlorotoluene	Ave	0.8366	0.9187		11.0	10.0	9.8	20.0
tert-Butylbenzene	Ave	0.6226	0.7109		11.4	10.0	14.2	20.0
Pentachloroethane	Ave	0.5041	0.6026		12.0	10.0	19.5	20.0
1,2,4-Trimethylbenzene	Ave	2.764	3.267		11.8	10.0	18.2	20.0
sec-Butylbenzene	Ave	3.595	3.801		10.6	10.0	5.7	20.0
1,3-Dichlorobenzene	Ave	1.603	1.675	0.6000	10.5	10.0	4.5	20.0
p-Isopropyltoluene	Ave	3.028	3.324		11.0	10.0	9.8	20.0
1,4-Dichlorobenzene	Ave	1.656	1.688	0.5000	10.2	10.0	2.0	20.0
1,2,3-Trimethylbenzene	Ave	1.274	1.334		10.5	10.0	4.7	20.0
Benzyl chloride	Ave	0.2416	0.2719		11.3	10.0	12.5	20.0
n-Butylbenzene	Ave	1.444	1.616		11.2	10.0	11.9	20.0
1,2-Dichlorobenzene	Ave	1.490	1.553	0.4000	10.4	10.0	4.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0918	0.0969	0.0500	10.6	10.0	5.5	20.0
1,3,5-Trichlorobenzene	Ave	1.093	1.107		10.1	10.0	1.3	20.0
1,2,4-Trichlorobenzene	Ave	0.8809	0.8742	0.2000	9.92	10.0	-0.8	20.0
Hexachlorobutadiene	Ave	0.4162	0.3774		9.07	10.0	-9.3	20.0
Naphthalene	Ave	1.626	1.607		9.88	10.0	-1.2	20.0
1,2,3-Trichlorobenzene	Ave	0.7814	0.7018		8.98	10.0	-10.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2511	0.2486		9.90	10.0	-1.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0516	0.0516		10.0	10.0	0.0	20.0
Toluene-d8 (Surr)	Ave	1.298	1.317		10.1	10.0	1.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4758	0.4652		9.78	10.0	-2.2	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Sep-2022 11:50:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065465-003
Misc. Info.: CCVIS VSTD10
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:57:50 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: DVW2 Date: 01-Sep-2022 12:37:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.947	1.947	0.000	99	832905	10.0	10.0	
4 Chloromethane	50	2.148	2.148	0.000	99	944021	10.0	10.0	
5 Vinyl chloride	62	2.251	2.251	0.000	98	958817	10.0	10.3	
6 Butadiene	39	2.264	2.264	0.000	90	1013991	10.0	9.66	M
7 Bromomethane	94	2.599	2.599	0.000	90	704020	10.0	10.9	
8 Chloroethane	64	2.690	2.690	0.000	100	562114	10.0	10.3	
9 Dichlorofluoromethane	67	2.910	2.910	0.000	97	1301202	10.0	10.3	
10 Trichlorofluoromethane	101	2.952	2.952	0.000	99	1142049	10.0	9.33	M
11 Ethyl ether	59	3.251	3.251	0.000	91	562460	10.0	9.52	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.324	3.324	0.000	92	882665	10.0	9.51	M
14 Acrolein	56	3.428	3.428	0.000	100	4494904	500.0	439.4	
15 1,1-Dichloroethene	96	3.568	3.568	0.000	98	478512	10.0	7.01	
16 Acetone	43	3.586	3.586	0.000	100	1089893	100.0	90.3	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.611	3.611	0.000	71	201034	10.0	2.91	
18 Iodomethane	142	3.769	3.769	0.000	99	1119751	10.0	9.32	
19 Ethyl bromide	108	3.794	3.794	0.000	98	471068	10.0	7.63	
20 Carbon disulfide	76	3.879	3.879	0.000	100	1259244	10.0	7.37	
23 Methyl acetate	43	4.013	4.013	0.000	97	383424	10.0	10.8	M
24 3-Chloro-1-propene	41	4.044	4.044	0.000	92	853391	10.0	8.54	
25 Methylene Chloride	84	4.239	4.239	0.000	92	740419	10.0	9.90	
* 26 t-Butyl alcohol-d10 (IS)	65	4.245	4.245	0.000	99	218824	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.367	4.367	0.000	98	584733	200.0	155.4	
28 Acrylonitrile	53	4.580	4.580	0.000	100	402123	25.0	23.8	
29 Methyl tert-butyl ether	73	4.641	4.641	0.000	91	1529341	10.0	8.92	
30 trans-1,2-Dichloroethene	96	4.653	4.653	0.000	99	663884	10.0	8.76	
31 Hexane	57	5.068	5.068	0.000	92	954087	10.0	9.01	
32 1,1-Dichloroethane	63	5.306	5.306	0.000	96	1342418	10.0	9.67	
35 Isopropyl ether	45	5.367	5.367	0.000	94	2096078	10.0	9.81	
36 2-Chloro-1,3-butadiene	53	5.409	5.409	0.000	91	1044529	10.0	10.3	
37 Tert-butyl ethyl ether	59	5.903	5.903	0.000	97	1796804	10.0	9.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.092	6.092	0.000	100	2225799	100.0	99.3	
39 cis-1,2-Dichloroethene	96	6.129	6.129	0.000	81	820395	10.0	9.68	
40 2,2-Dichloropropane	77	6.141	6.141	0.000	87	752400	10.0	6.68	
43 Propionitrile	54	6.177	6.177	0.000	99	1346334	200.0	207.1	
45 Methacrylonitrile	67	6.397	6.397	0.000	91	2261428	100.0	96.7	
46 Chlorobromomethane	128	6.458	6.458	0.000	94	381452	10.0	9.93	
47 Tetrahydrofuran	71	6.470	6.470	0.000	82	320786	50.0	49.5	
48 Chloroform	83	6.610	6.610	0.000	93	1387283	10.0	9.96	
$ 49 Dibromofluoromethane (Surr)	113	6.818	6.818	0.000	94	669552	10.0	9.90	
50 1,1,1-Trichloroethane	97	6.830	6.830	0.000	99	928168	10.0	7.45	
51 Cyclohexane	56	6.933	6.933	0.000	91	754430	10.0	6.04	
53 1,1-Dichloropropene	75	7.043	7.043	0.000	98	1066884	10.0	9.85	
54 Carbon tetrachloride	117	7.049	7.049	0.000	95	884534	10.0	7.94	
55 Isobutyl alcohol	41	7.189	7.189	0.000	94	830735	500.0	563.3	M
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	81	138929	10.0	10.0	
57 Benzene	78	7.305	7.305	0.000	96	3235249	10.0	9.92	
58 1,2-Dichloroethane	62	7.372	7.372	0.000	97	878390	10.0	10.1	
60 Tert-amyl methyl ether	73	7.494	7.494	0.000	99	1739282	10.0	9.26	
* 61 Fluorobenzene (IS)	96	7.708	7.708	0.000	99	2693523	10.0	10.0	
62 n-Heptane	43	7.720	7.720	0.000	91	1081188	10.0	9.27	
63 n-Butanol	56	8.061	8.061	0.000	89	1329102	875.0	981.2	
64 Trichloroethene	95	8.183	8.183	0.000	98	857791	10.0	9.88	
65 Methylcyclohexane	83	8.494	8.494	0.000	94	1049063	10.0	7.33	
66 1,2-Dichloropropane	63	8.512	8.512	0.000	86	848950	10.0	10.1	
67 Methyl methacrylate	69	8.592	8.592	0.000	90	404432	10.0	9.61	
68 1,4-Dioxane	88	8.604	8.604	0.000	38	185656	500.0	617.9	
69 Dibromomethane	93	8.622	8.622	0.000	96	416482	10.0	10.3	
71 Dichlorobromomethane	83	8.854	8.854	0.000	99	1020378	10.0	10.2	
72 2-Nitropropane	41	9.116	9.116	0.000	98	631028	50.0	50.8	
75 1-Bromo-2-chloroethane	63	9.250	9.250	0.000	99	903926	10.0	10.5	
76 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	96	1235068	10.0	10.3	
77 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	96	5755564	100.0	106.2	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2724829	10.0	10.1	
79 Toluene	92	9.780	9.780	0.000	98	2084292	10.0	9.82	
97 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	92	1041931	10.0	10.8	
99 Ethyl methacrylate	69	10.097	10.097	0.000	89	842340	10.0	11.5	
100 1,1,2-Trichloroethane	97	10.238	10.238	0.000	91	616911	10.0	10.3	
101 Tetrachloroethene	166	10.329	10.329	0.000	98	965489	10.0	9.53	
102 1,3-Dichloropropane	76	10.402	10.402	0.000	88	1046530	10.0	10.5	
103 2-Hexanone	43	10.451	10.451	0.000	96	4076571	100.0	104.0	
105 Chlorodibromomethane	129	10.616	10.616	0.000	90	778251	10.0	10.6	
106 Ethylene Dibromide	107	10.731	10.731	0.000	99	594558	10.0	10.7	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	2069025	10.0	10.0	
108 1-Chlorohexane	91	11.164	11.164	0.000	98	1174676	10.0	9.89	
109 Chlorobenzene	112	11.183	11.183	0.000	96	2419698	10.0	10.2	
111 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	96	827271	10.0	10.2	
112 Ethylbenzene	91	11.268	11.268	0.000	98	4028201	10.0	10.2	
113 m-Xylene & p-Xylene	106	11.384	11.384	0.000	100	3252648	20.0	21.2	
114 o-Xylene	106	11.713	11.713	0.000	96	1485493	10.0	10.1	
115 Styrene	104	11.725	11.725	0.000	95	2454491	10.0	10.6	
116 Bromoform	173	11.884	11.884	0.000	98	446913	10.0	10.2	
117 Isopropylbenzene	105	12.012	12.012	0.000	95	3904717	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 120 4-Bromofluorobenzene (Surr)	95	12.152	12.152	0.000	92	962436	10.0	9.78	
121 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	92	828668	10.0	11.9	
122 Bromobenzene	156	12.274	12.274	0.000	92	981058	10.0	10.9	
123 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	91	1870255	100.0	97.5	
124 1,2,3-Trichloropropane	110	12.298	12.298	0.000	80	214834	10.0	11.7	
125 N-Propylbenzene	91	12.335	12.335	0.000	99	4950007	10.0	11.5	
126 2-Chlorotoluene	126	12.414	12.414	0.000	97	995231	10.0	11.2	
127 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	3370553	10.0	11.2	
128 4-Chlorotoluene	126	12.505	12.505	0.000	97	994618	10.0	11.0	
129 tert-Butylbenzene	134	12.713	12.713	0.000	93	769685	10.0	11.4	
130 Pentachloroethane	167	12.749	12.749	0.000	92	652410	10.0	12.0	
131 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	3536564	10.0	11.8	
132 sec-Butylbenzene	105	12.877	12.877	0.000	94	4115365	10.0	10.6	
133 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	1813819	10.0	10.5	
134 4-Isopropyltoluene	119	12.987	12.987	0.000	97	3599123	10.0	11.0	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	1082615	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.054	13.054	0.000	95	1827910	10.0	10.2	
137 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	1443905	10.0	10.5	
138 Benzyl chloride	126	13.127	13.127	0.000	98	294377	10.0	11.3	
139 n-Butylbenzene	92	13.274	13.274	0.000	97	1750013	10.0	11.2	
140 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	1681207	10.0	10.4	
142 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	89	104922	10.0	10.6	
143 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	1198369	10.0	10.1	
144 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	946421	10.0	9.92	
145 Hexachlorobutadiene	225	14.481	14.481	0.000	97	408538	10.0	9.07	
146 Naphthalene	128	14.584	14.584	0.000	97	1739824	10.0	9.88	
147 1,2,3-Trichlorobenzene	180	14.725	14.725	0.000	96	759734	10.0	8.98	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#2_826_00057	Amount Added: 20.00	Units: uL	
MSV_LL_#1_826_00052	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00110	Amount Added: 20.00	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

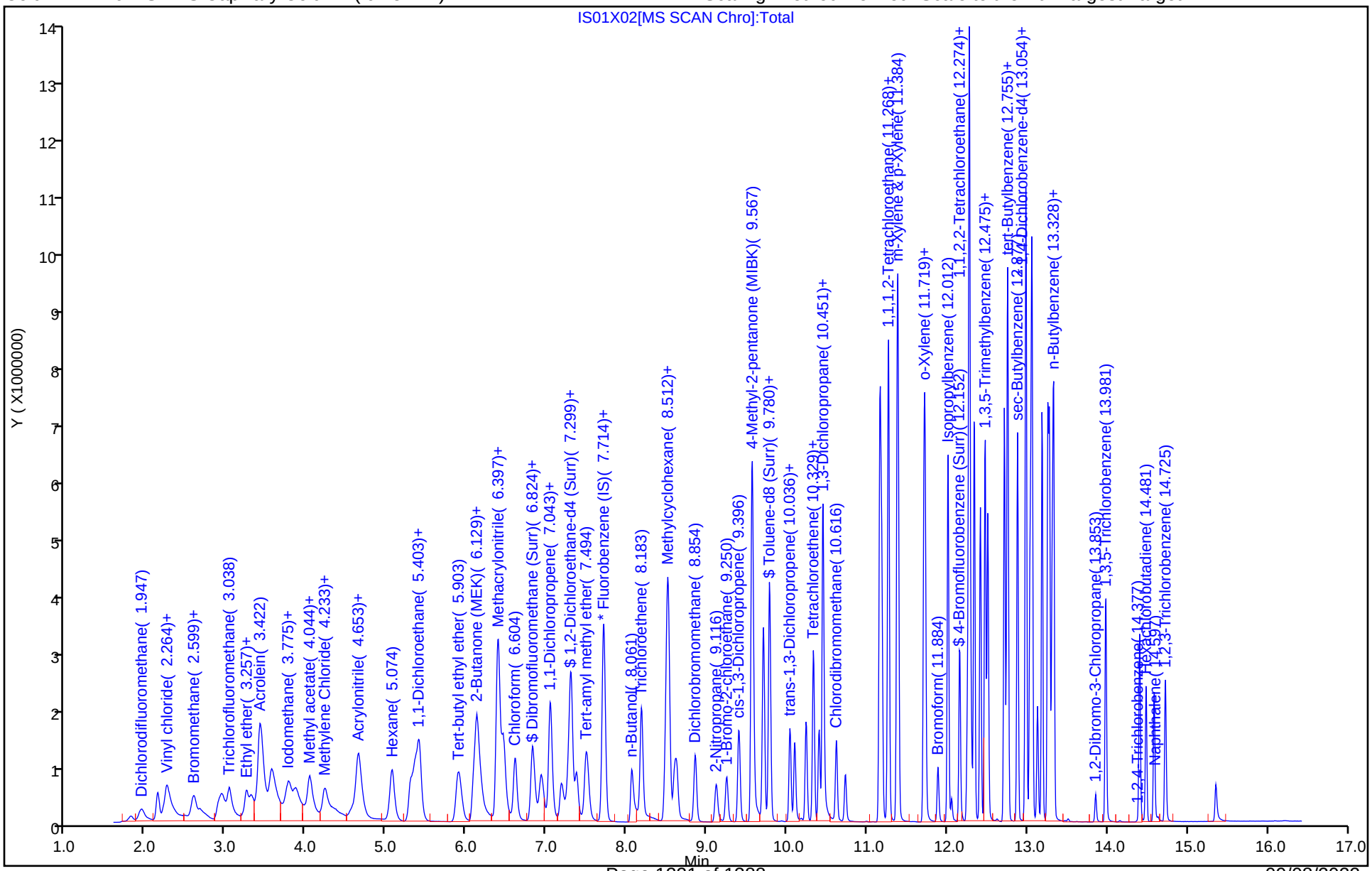
Report Date: 01-Sep-2022 13:57:51 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X02.D

Injection Date:	01-Sep-2022 11:50:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	CCVIS VSTD10			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

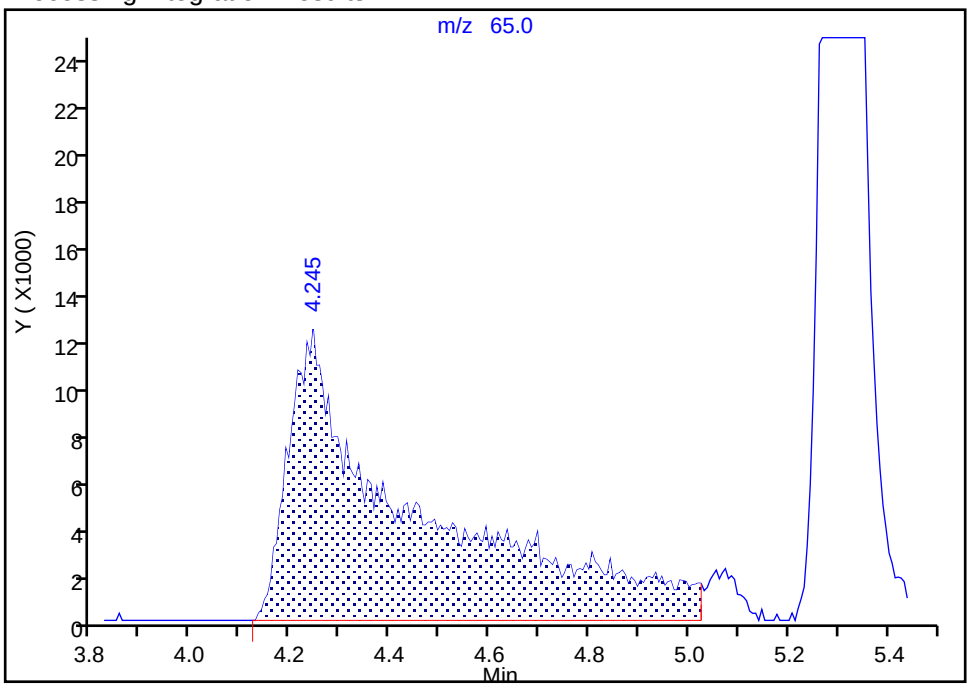
Data File:	\\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X02.D				
Injection Date:	01-Sep-2022 11:50:30	Instrument ID:	19930		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

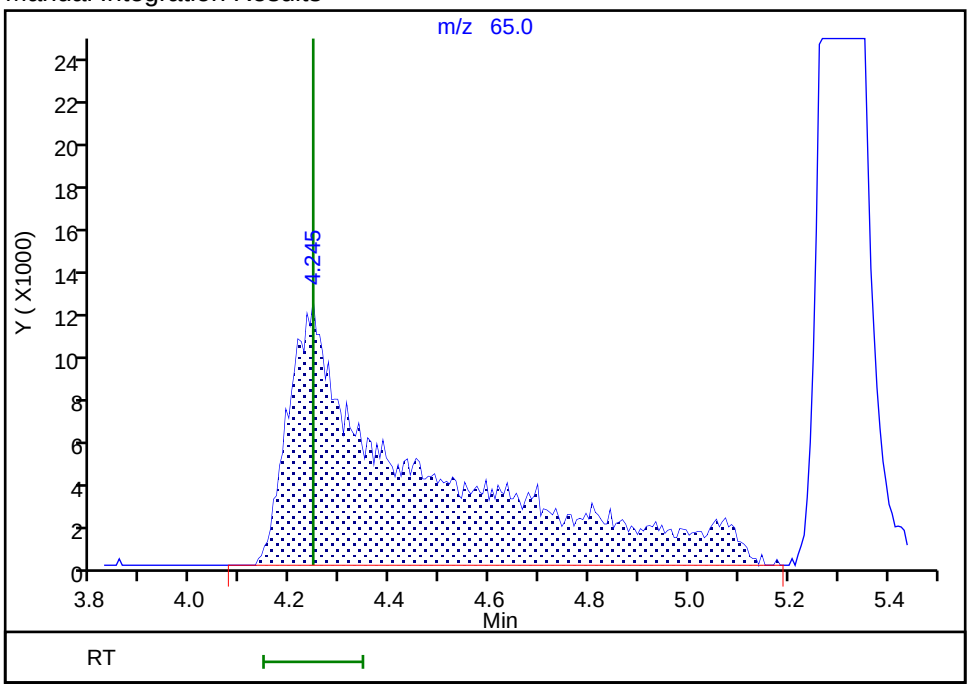
Processing Integration Results

RT: 4.24
Area: 209581
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.24
Area: 218824
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 01-Sep-2022 12:35:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

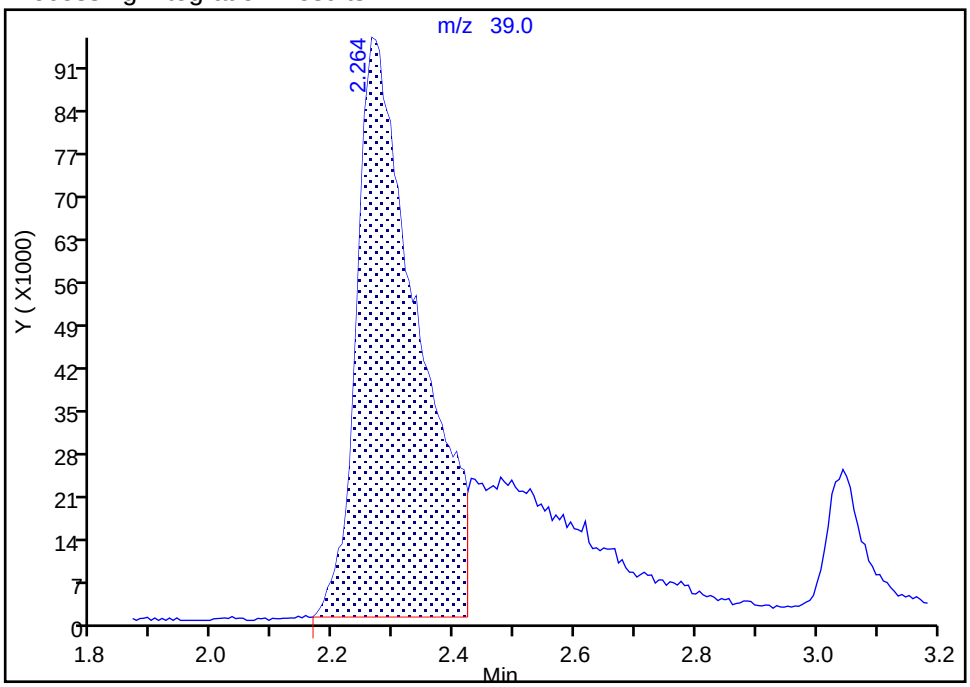
Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X02.D
Injection Date: 01-Sep-2022 11:50:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

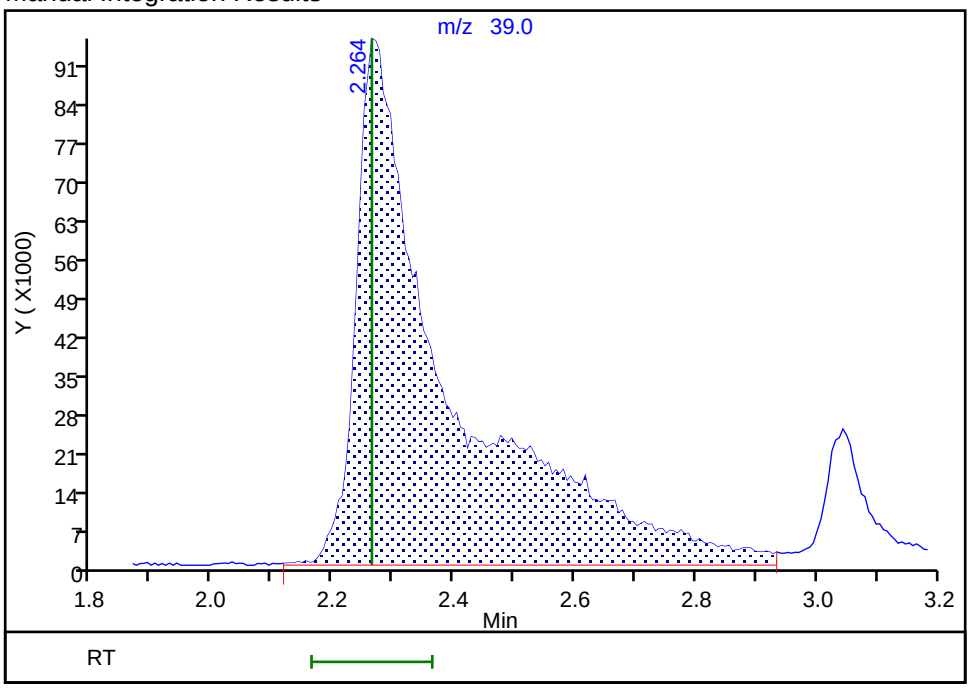
Processing Integration Results

RT: 2.26
Area: 661440
Amount: 6.299204
Amount Units: ug/l



Manual Integration Results

RT: 2.26
Area: 1013991
Amount: 9.656712
Amount Units: ug/l



Reviewer: DVW2, 01-Sep-2022 12:36:08
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

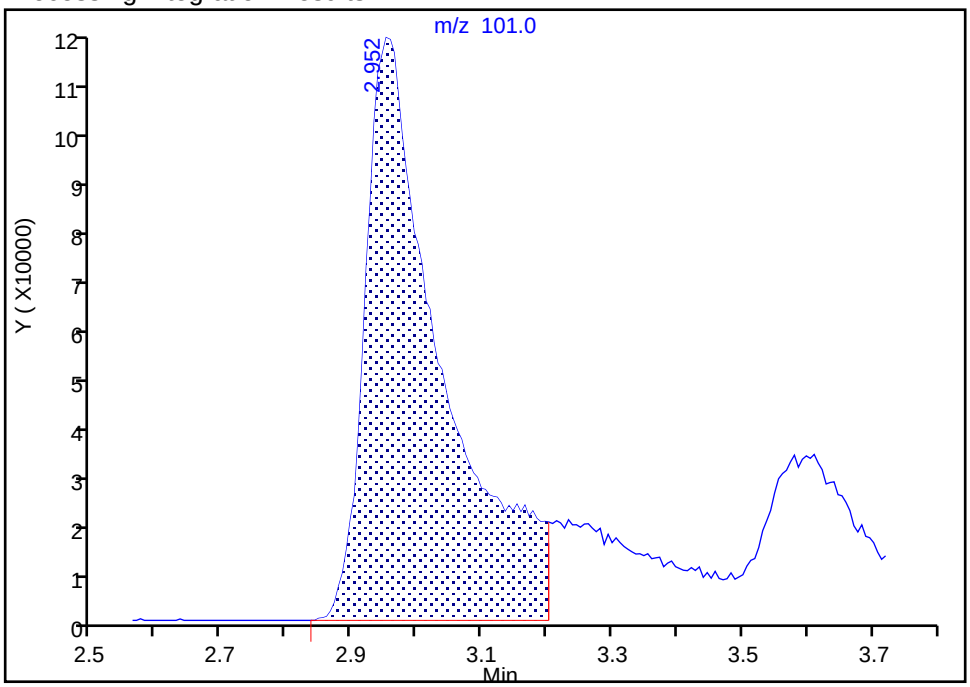
Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X02.D
Injection Date: 01-Sep-2022 11:50:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

10 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

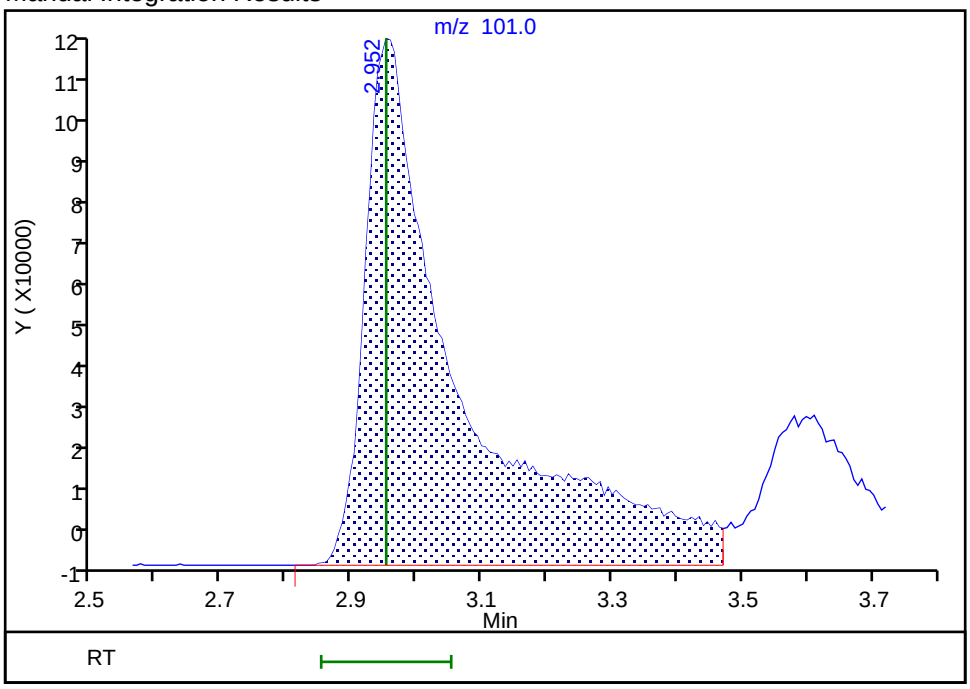
Processing Integration Results

RT: 2.95
Area: 922985
Amount: 7.538336
Amount Units: ug/l



Manual Integration Results

RT: 2.95
Area: 1142049
Amount: 9.327507
Amount Units: ug/l



Reviewer: DVW2, 01-Sep-2022 12:36:33
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

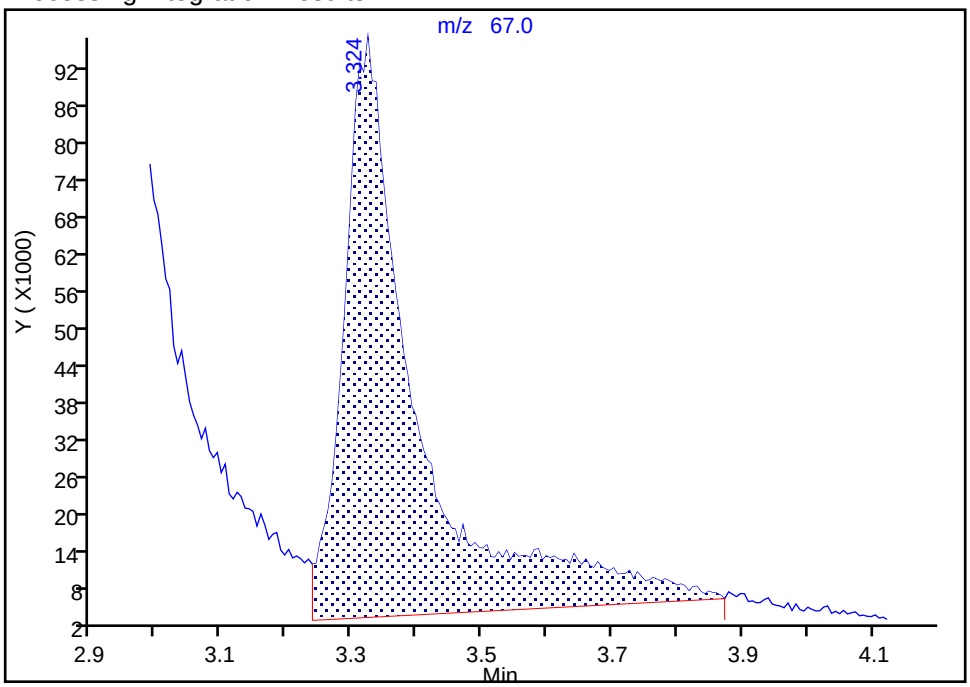
Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X02.D
Injection Date: 01-Sep-2022 11:50:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

13 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

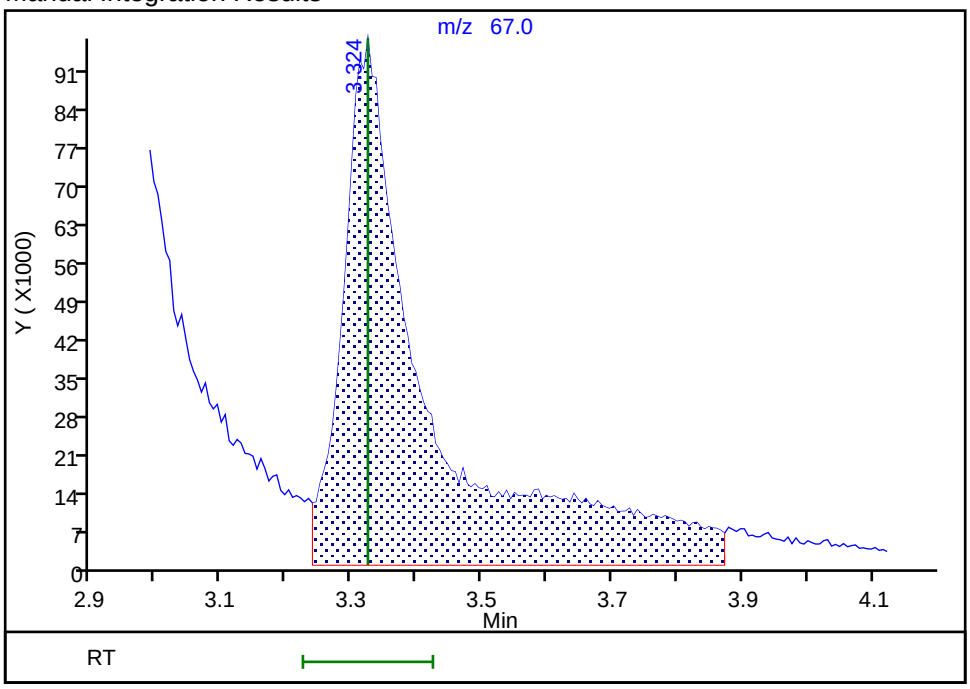
Processing Integration Results

RT: 3.32
Area: 725582
Amount: 7.819973
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 882665
Amount: 9.512938
Amount Units: ug/l



Reviewer: DVW2, 01-Sep-2022 12:36:45
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

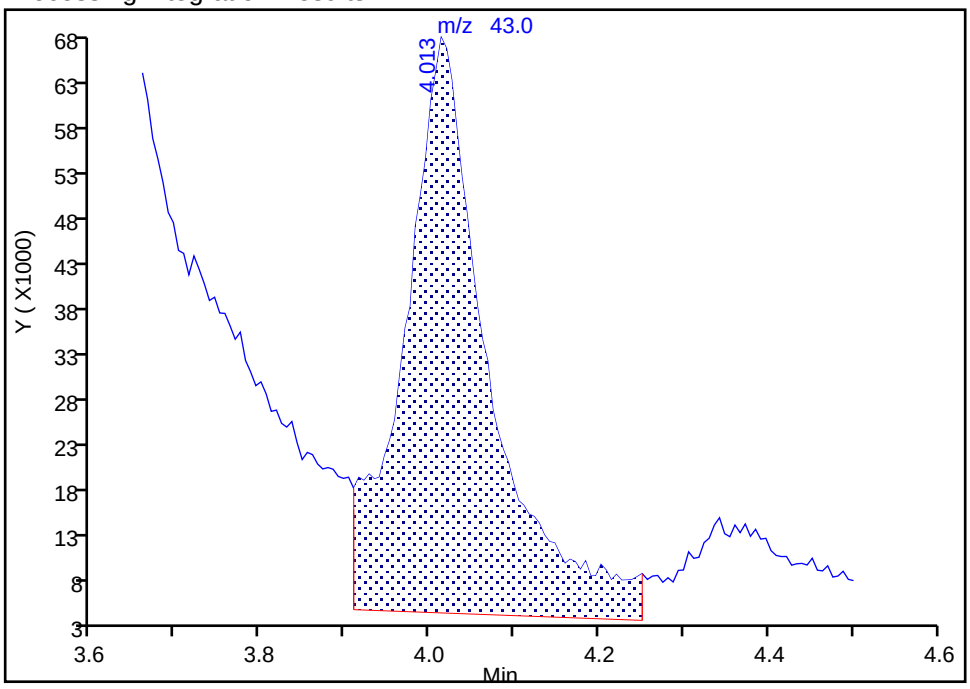
Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X02.D
Injection Date: 01-Sep-2022 11:50:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

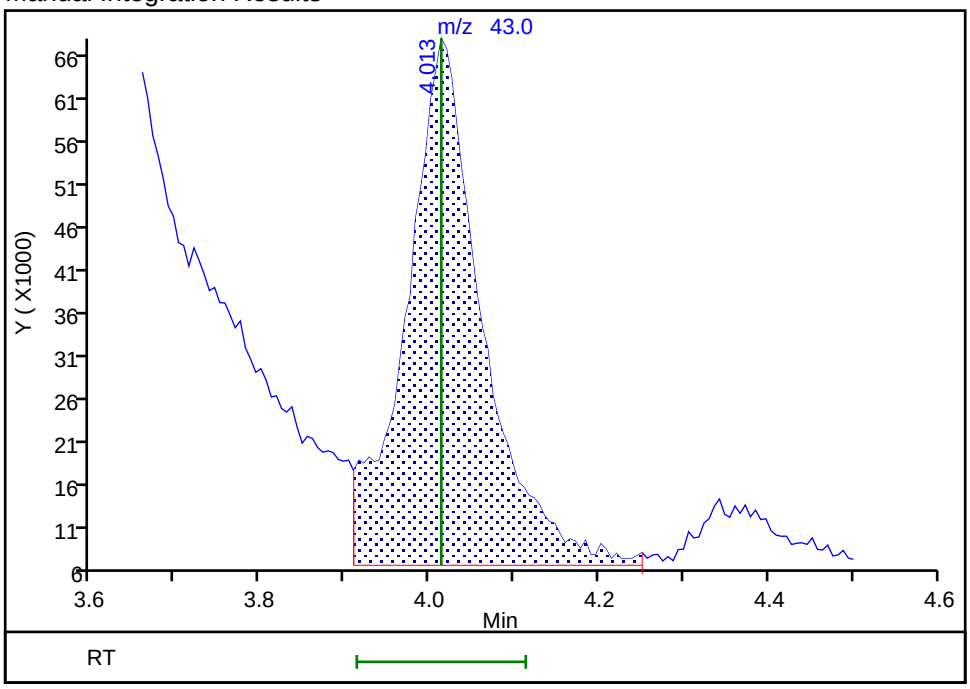
Processing Integration Results

RT: 4.01
Area: 448931
Amount: 12.648590
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 383424
Amount: 10.802937
Amount Units: ug/l



Reviewer: DVW2, 01-Sep-2022 12:39:07
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

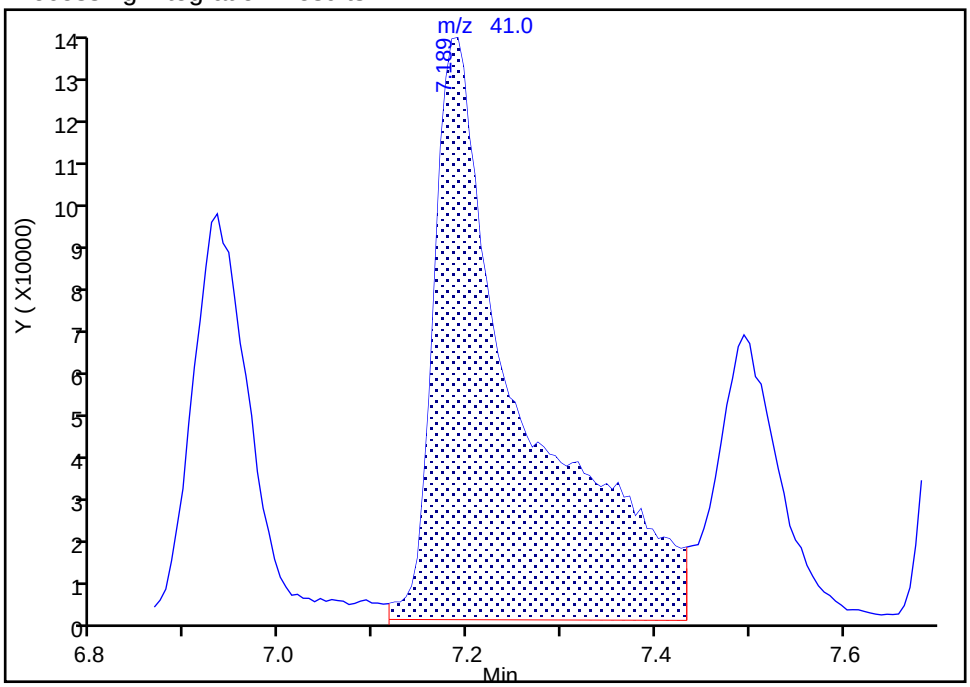
Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X02.D
Injection Date: 01-Sep-2022 11:50:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

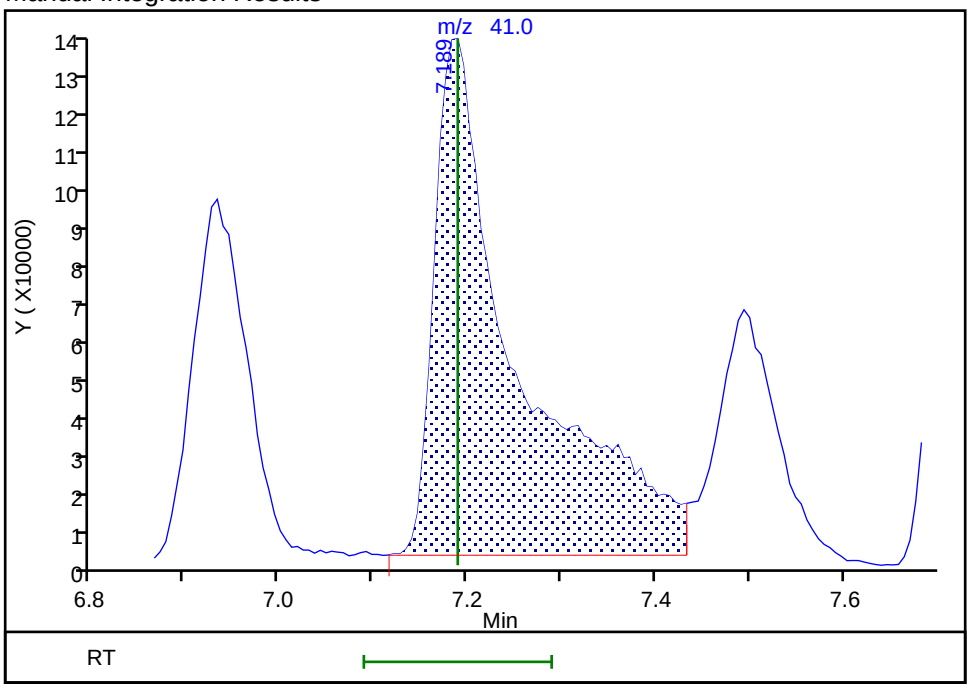
Processing Integration Results

RT: 7.19
Area: 904201
Amount: 613.0894
Amount Units: ug/l



Manual Integration Results

RT: 7.19
Area: 830735
Amount: 563.2762
Amount Units: ug/l



Reviewer: DVW2, 01-Sep-2022 12:40:10
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22T04.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	22-Aug-2022 15:51:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0064657-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Aug-2022 13:30:27	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1639				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 165 BFB	95	4.946	4.946	0.000	0	89754	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

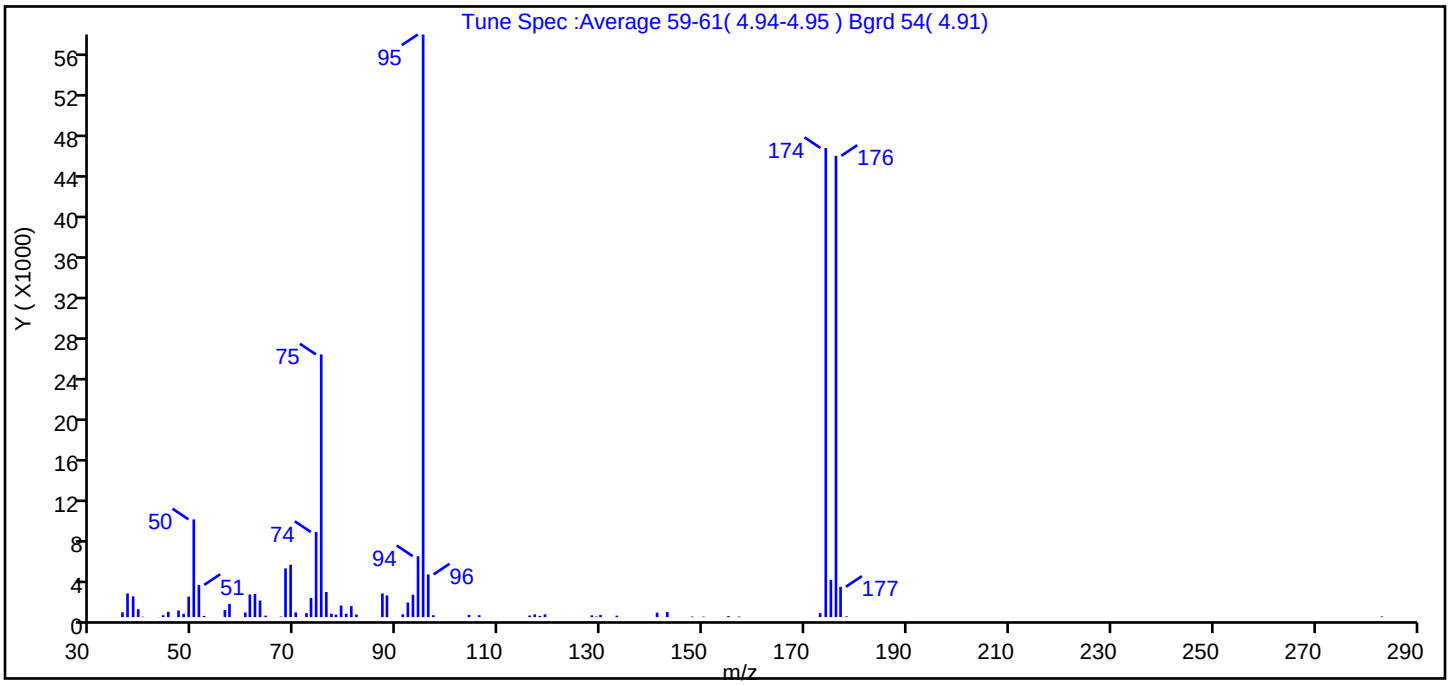
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22T04.D
Injection Date: 22-Aug-2022 15:51:30 Instrument ID: 10193
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 165 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.8
75	30 to 60% of m/z 95	45.1
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.7 (0.9)
174	50 to 120% of m/z 95	80.5
175	5 to 9% of m/z 174	6.4 (8.0)
176	Greater than 95% but less than 101% of m/z 174	79.2 (98.3)
177	5 to 9% of m/z 176	5.2 (6.6)

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22T04.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 22-Aug-2022 15:51:30
Spectrum: Tune Spec :Average 59-61(4.94-4.95) Bgrd 54(4.91)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 68

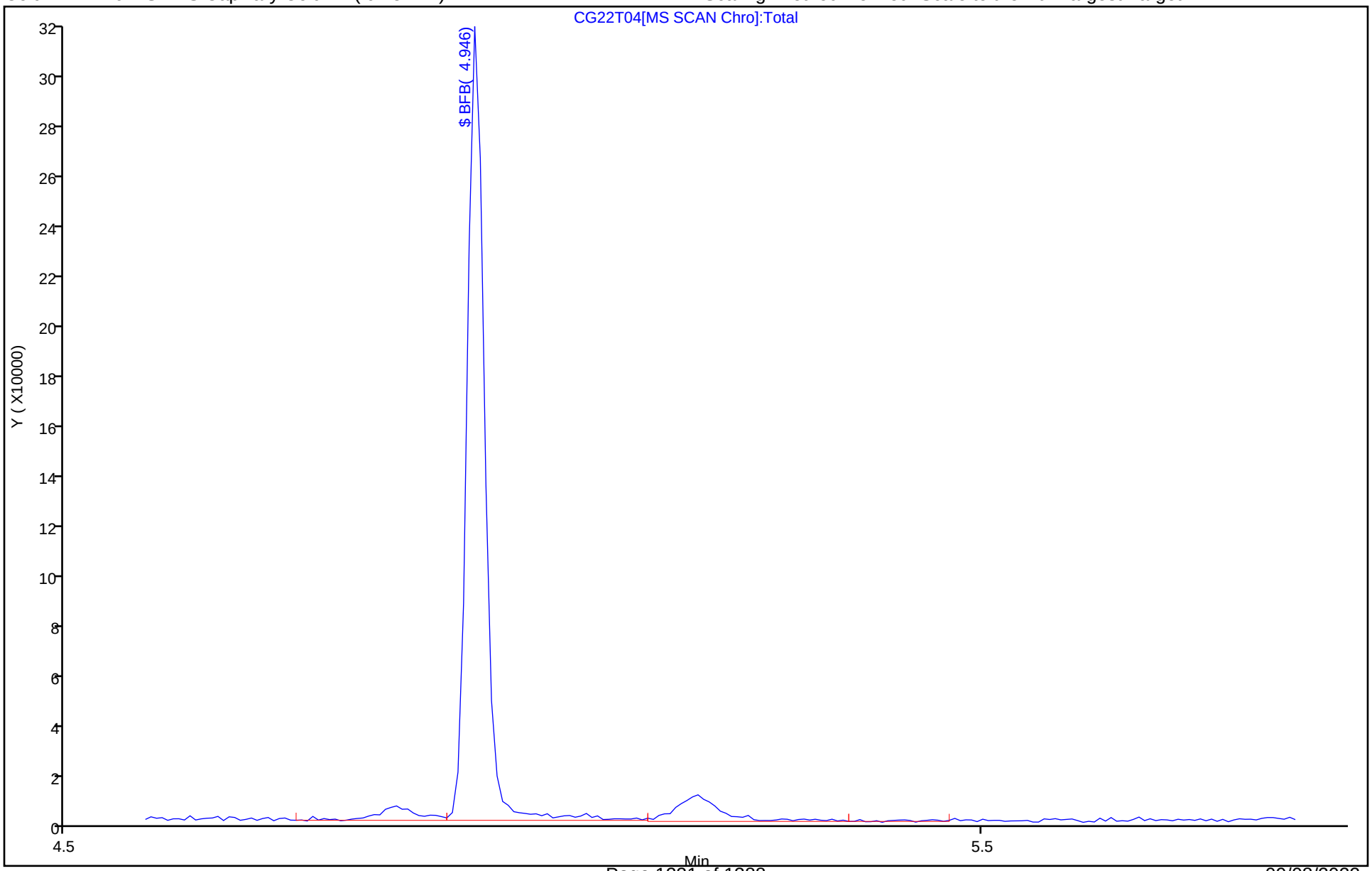
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	484	61.00	2245	81.00	1091	128.00	179
37.00	2348	62.00	2302	82.00	257	129.00	61
38.00	2059	63.00	1641	87.00	2345	130.00	220
39.00	788	64.00	151	88.00	2153	133.00	148
40.00	44	67.00	53	91.00	281	141.00	442
43.00	10	68.00	4831	92.00	1449	143.00	507
44.00	192	69.00	5193	93.00	2219	148.00	59
45.00	527	70.00	471	94.00	6043	150.00	53
47.00	657	72.00	400	95.00	57736	155.00	105
48.00	332	73.00	1893	96.00	4234	157.00	63
49.00	2036	74.00	8439	97.00	193	173.00	396
50.00	9690	75.00	26032	104.00	219	174.00	46488
51.00	3195	76.00	2490	106.00	197	175.00	3698
52.00	124	77.00	339	116.00	161	176.00	45712
56.00	707	78.00	246	117.00	275	177.00	3008
57.00	1319	79.00	1143	118.00	127	178.00	73
60.00	457	80.00	344	119.00	279	283.00	66

Report Date: 30-Aug-2022 13:30:27 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22T04.D				
Injection Date:	22-Aug-2022 15:51:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Sep-2022 10:11:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0065639-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	05-Sep-2022 12:39:35	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1663				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 170 BFB	95	4.946	4.946	0.000	0	52768	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

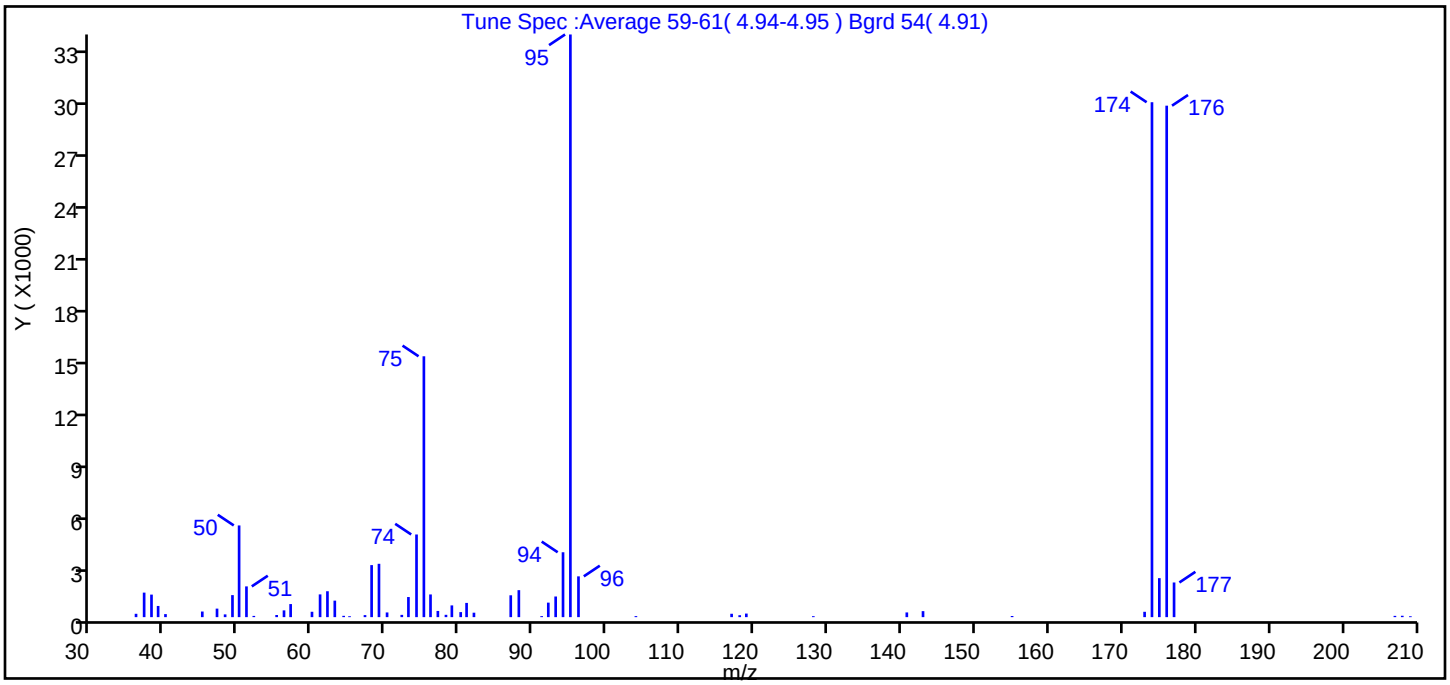
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05T01.D
Injection Date: 05-Sep-2022 10:11:30 Instrument ID: 10193
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 170 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.7
75	30 to 60% of m/z 95	44.8
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	88.4
175	5 to 9% of m/z 174	6.7 (7.6)
176	Greater than 95% but less than 101% of m/z 174	87.8 (99.3)
177	5 to 9% of m/z 176	5.9 (6.8)

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05T01.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 05-Sep-2022 10:11:30
Spectrum: Tune Spec :Average 59-61(4.94-4.95) Bgrd 54(4.91)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

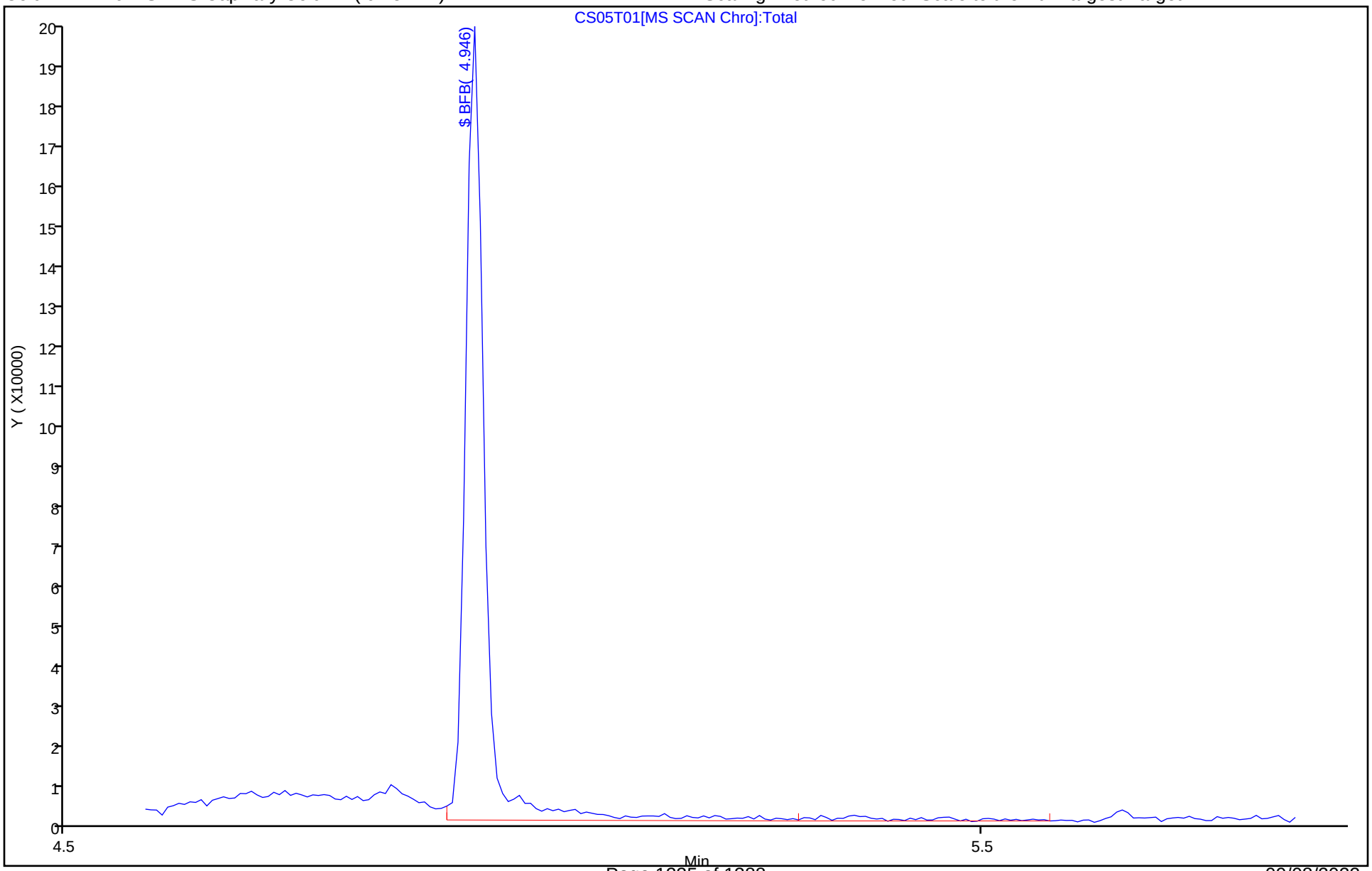
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	194	60.00	312	77.00	359	117.00	196
37.00	1422	61.00	1319	78.00	135	118.00	112
38.00	1307	62.00	1502	79.00	681	119.00	207
39.00	648	63.00	957	80.00	292	128.00	55
40.00	176	64.00	76	81.00	825	141.00	273
45.00	326	65.00	53	82.00	258	143.00	348
47.00	494	67.00	118	87.00	1267	155.00	66
48.00	160	68.00	3017	88.00	1564	173.00	310
49.00	1277	69.00	3093	91.00	58	174.00	29856
50.00	5317	70.00	272	92.00	841	175.00	2261
51.00	1783	72.00	132	93.00	1197	176.00	29656
52.00	72	73.00	1166	94.00	3762	177.00	2010
55.00	124	74.00	4793	95.00	33784	207.00	74
56.00	393	75.00	15125	96.00	2365	208.00	80
57.00	758	76.00	1316	104.00	60	209.00	50

Report Date: 05-Sep-2022 12:39:36 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05T01.D				
Injection Date:	05-Sep-2022 10:11:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	16-Aug-2022 13:07:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0064243-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Aug-2022 10:58:17	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1639				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 167 BFB	95	5.127	5.127	0.000	0	221756	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

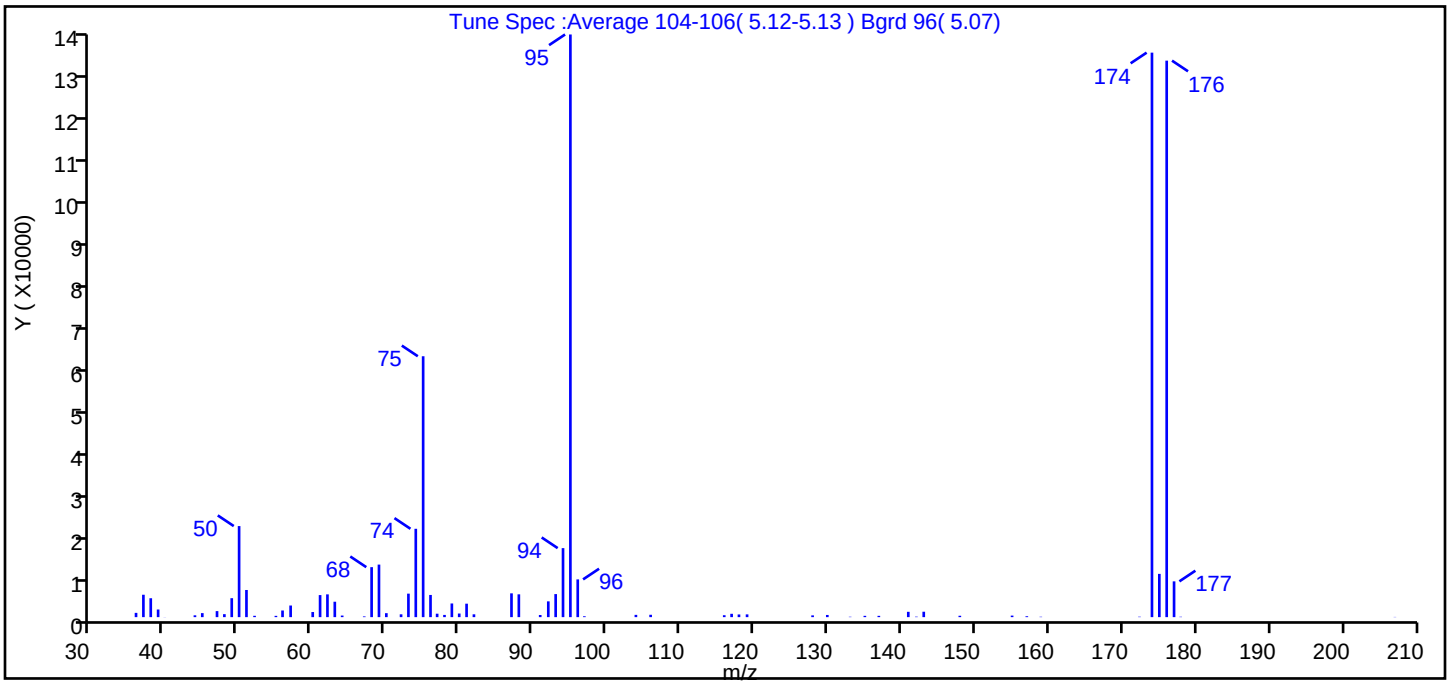
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16T01.D				
Injection Date:	16-Aug-2022 13:07:30	Instrument ID:	16334		
Lims ID:	bfb				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Tune Method:	BFB Method 8260				

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.6
75	30 to 60% of m/z 95	44.8
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	96.9
175	5 to 9% of m/z 174	7.4 (7.7)
176	Greater than 95% but less than 101% of m/z 174	95.5 (98.6)
177	5 to 9% of m/z 176	6.1 (6.4)

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 16-Aug-2022 13:07:30
Spectrum: Tune Spec :Average 104-106(5.12-5.13) Bgrd 96(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 70

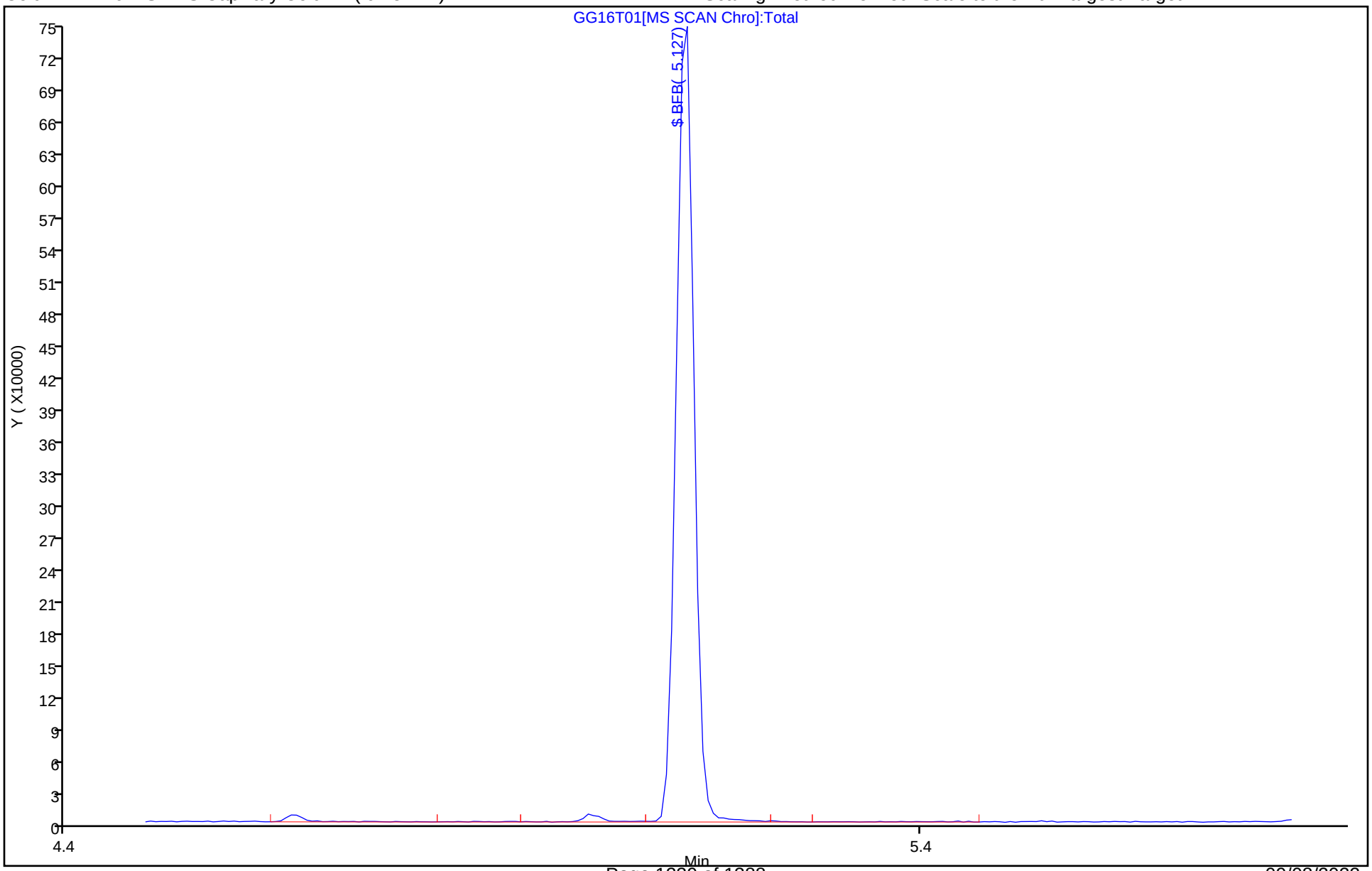
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	971	62.00	5167	87.00	5399	135.00	297
37.00	5082	63.00	3498	88.00	5173	137.00	296
38.00	4289	64.00	361	91.00	486	141.00	1209
39.00	1733	67.00	162	92.00	3581	142.00	110
40.00	24	68.00	11339	93.00	5229	143.00	1229
44.00	414	69.00	11920	94.00	15654	148.00	313
45.00	913	70.00	902	95.00	132160	155.00	351
47.00	1370	72.00	643	96.00	8562	157.00	205
48.00	677	73.00	5331	97.00	197	159.00	88
49.00	4300	74.00	20040	104.00	517	172.00	99
50.00	20656	75.00	59176	106.00	538	174.00	128040
51.00	6158	76.00	5033	116.00	437	175.00	9813
52.00	305	77.00	782	117.00	759	176.00	126224
55.00	295	78.00	504	118.00	610	177.00	8116
56.00	1511	79.00	3102	119.00	626	178.00	87
57.00	2637	80.00	820	128.00	402	207.00	47
60.00	1159	81.00	3054	130.00	495		
61.00	5004	82.00	644	133.00	88		

Report Date: 30-Aug-2022 10:58:17 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16T01.D				
Injection Date:	16-Aug-2022 13:07:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Sep-2022 10:01:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0065640-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	05-Sep-2022 12:34:02	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1663				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 167 BFB	95	5.127	5.127	0.000	0	155547	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

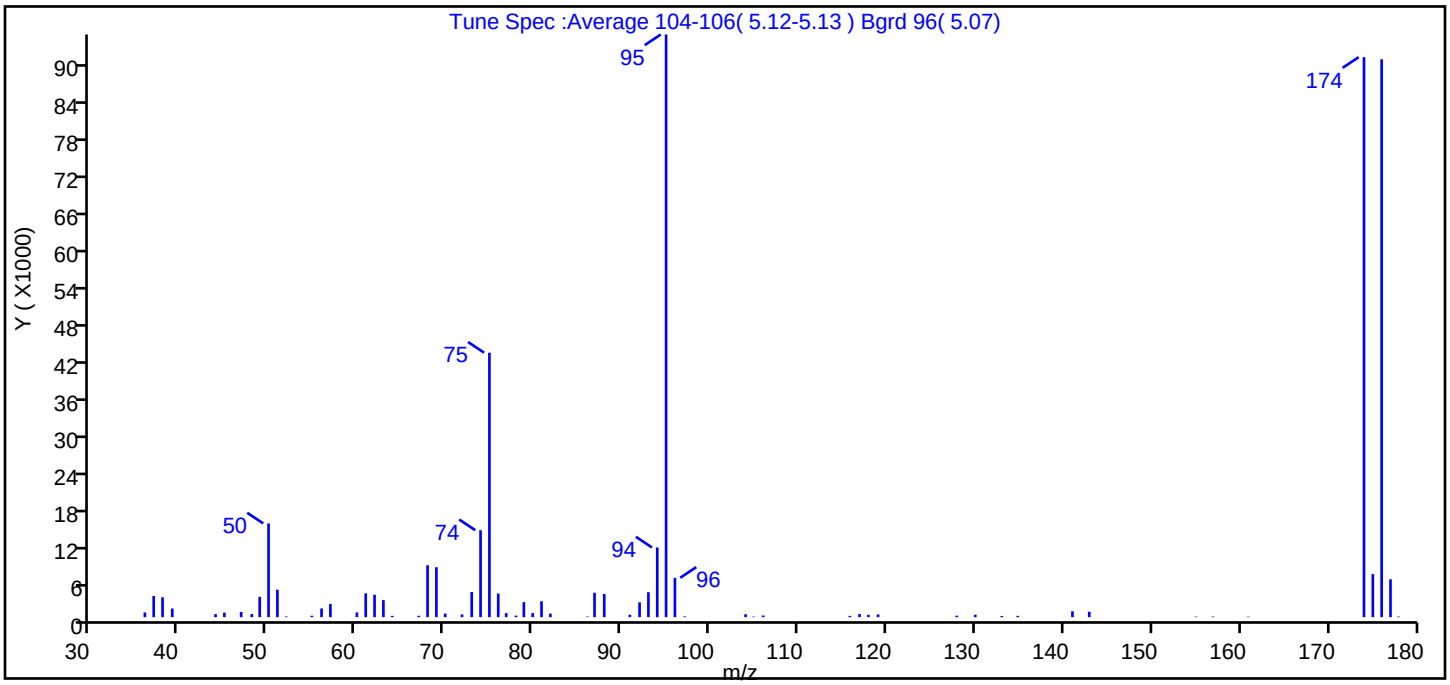
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05T01.D
Injection Date: 05-Sep-2022 10:01:30 Instrument ID: 16334
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.1
75	30 to 60% of m/z 95	45.4
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	96.1
175	5 to 9% of m/z 174	7.4 (7.7)
176	Greater than 95% but less than 101% of m/z 174	95.7 (99.6)
177	5 to 9% of m/z 176	6.5 (6.8)

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 05-Sep-2022 10:01:30
Spectrum: Tune Spec :Average 104-106(5.12-5.13) Bgrd 96(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 66

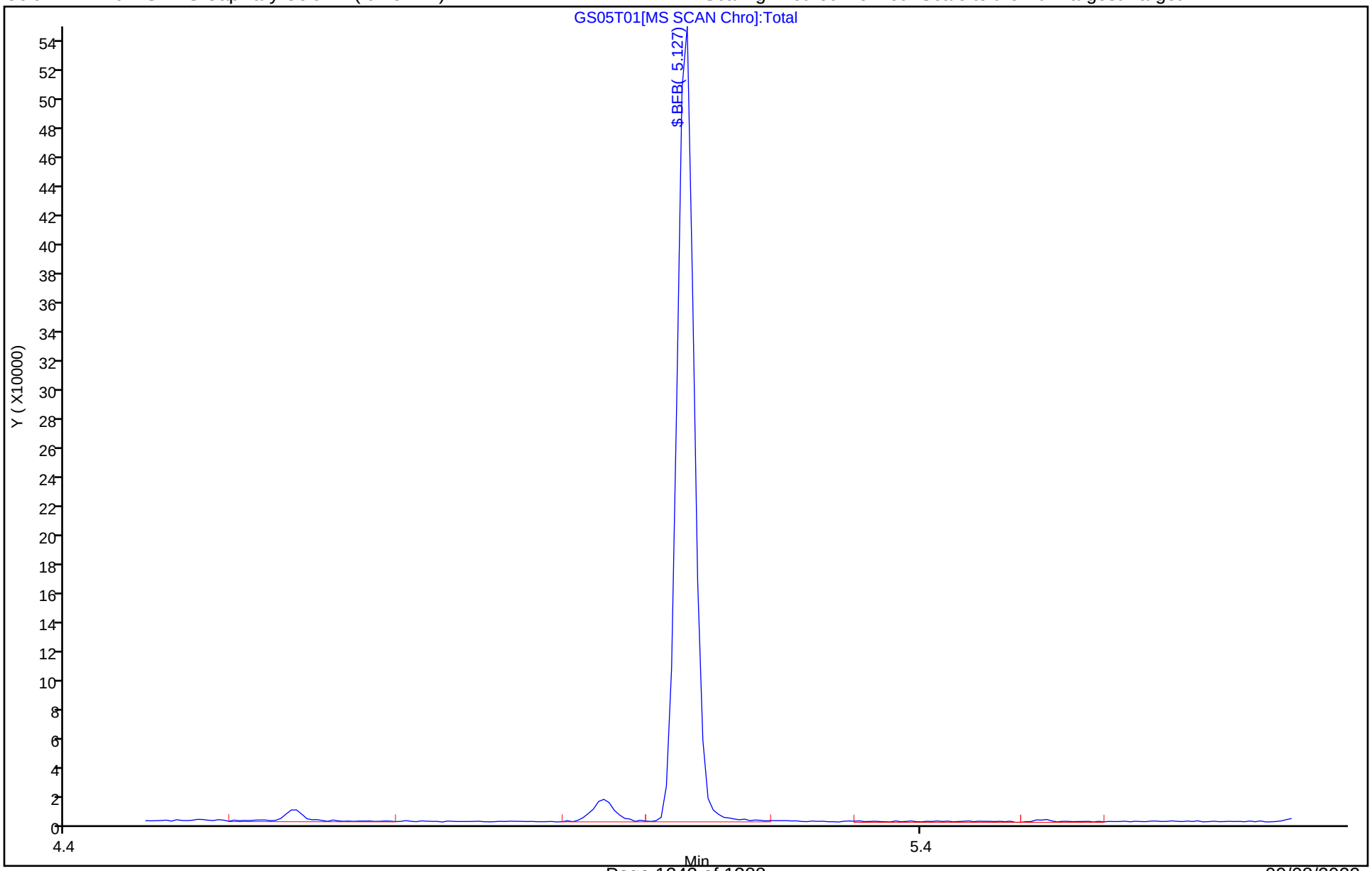
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	760	62.00	3637	82.00	567	119.00	442
37.00	3442	63.00	2773	86.00	97	128.00	244
38.00	3238	64.00	213	87.00	3974	130.00	401
39.00	1405	67.00	227	88.00	3766	133.00	192
44.00	499	68.00	8459	91.00	393	135.00	216
45.00	727	69.00	8137	92.00	2412	141.00	955
47.00	846	70.00	579	93.00	4063	143.00	885
48.00	499	72.00	442	94.00	11353	155.00	91
49.00	3300	73.00	4089	95.00	94912	157.00	100
50.00	15263	74.00	14163	96.00	6412	161.00	84
51.00	4467	75.00	43080	97.00	120	174.00	91216
52.00	116	76.00	3841	104.00	468	175.00	7017
55.00	232	77.00	651	105.00	93	176.00	90864
56.00	1410	78.00	245	106.00	269	177.00	6168
57.00	2158	79.00	2445	116.00	209	178.00	101
60.00	769	80.00	664	117.00	505		
61.00	3881	81.00	2587	118.00	373		

Report Date: 05-Sep-2022 12:34:02 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05T01.D				
Injection Date:	05-Sep-2022 10:01:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	11-Jul-2022 15:02:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0061506-001				
Misc. Info.:	BFB				
Operator ID:	kas02648	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	14-Jul-2022 14:44:03	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1630				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 145 BFB	95	5.166	5.166	0.000	93	310899	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

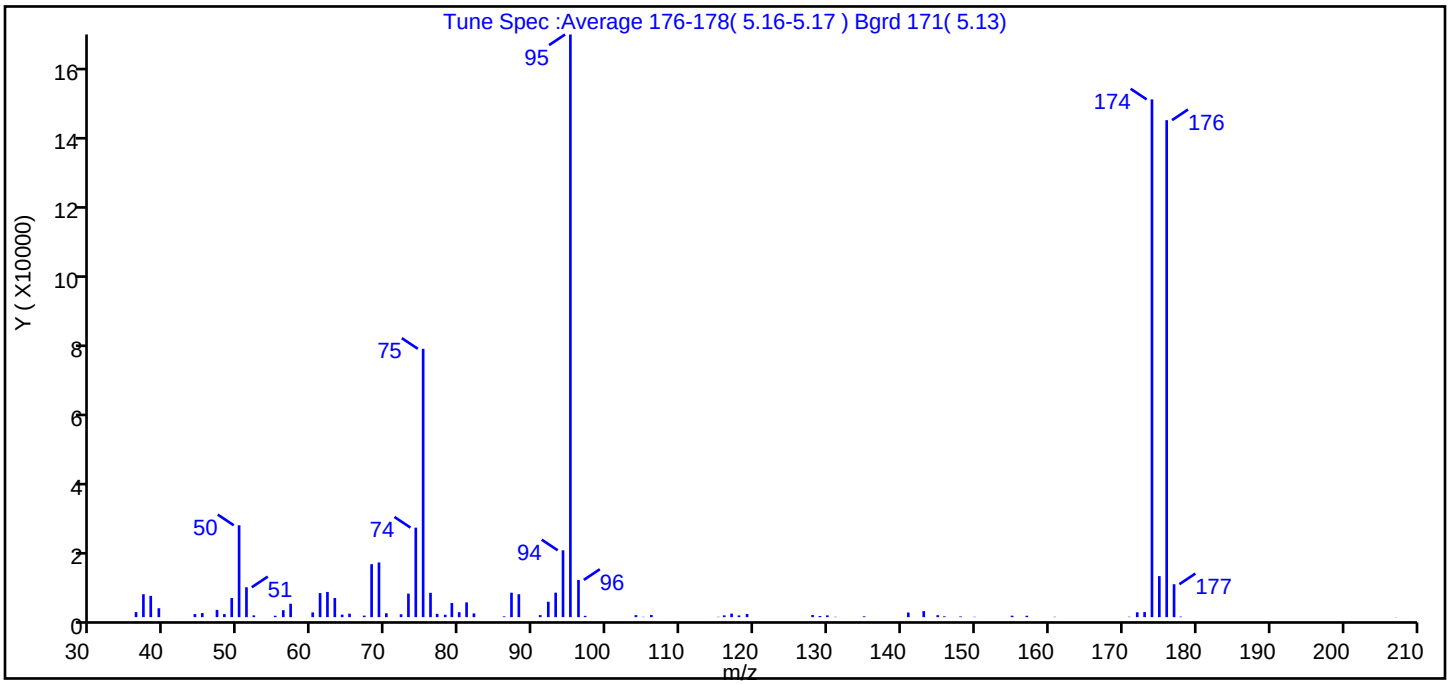
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11T01.D
Injection Date: 11-Jul-2022 15:02:30 Instrument ID: 19930
Lims ID: bfb
Client ID:
Operator ID: kas02648 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 145 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.8
75	30 to 60% of m/z 95	46.1
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	88.9
175	5 to 9% of m/z 174	7.0 (7.9)
176	Greater than 95% but less than 101% of m/z 174	85.3 (96.0)
177	5 to 9% of m/z 176	5.7 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 11-Jul-2022 15:02:30
Spectrum: Tune Spec :Average 176-178(5.16-5.17) Bgrd 171(5.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1439	65.00	983	92.00	4370	143.00	1717
37.00	6507	67.00	435	93.00	6951	145.00	552
38.00	6036	68.00	15039	94.00	18968	146.00	235
39.00	2532	69.00	15530	95.00	165376	148.00	196
44.00	877	70.00	1092	96.00	10565	150.00	92
45.00	1163	72.00	817	97.00	378	155.00	414
47.00	2060	73.00	6675	104.00	577	157.00	396
48.00	863	74.00	25408	105.00	86	161.00	93
49.00	5419	75.00	76160	106.00	601	171.00	108
50.00	26072	76.00	6905	115.00	89	172.00	1375
51.00	8482	77.00	935	116.00	509	173.00	1448
52.00	504	78.00	675	117.00	1002	174.00	146944
55.00	397	79.00	4008	118.00	492	175.00	11647
56.00	1982	80.00	1405	119.00	899	176.00	141056
57.00	3803	81.00	4192	128.00	616	177.00	9346
60.00	1357	82.00	1058	129.00	324	178.00	148
61.00	6833	86.00	217	130.00	502	207.00	46
62.00	7154	87.00	6935	131.00	94		
63.00	5435	88.00	6513	135.00	229		
64.00	712	91.00	583	141.00	1313		

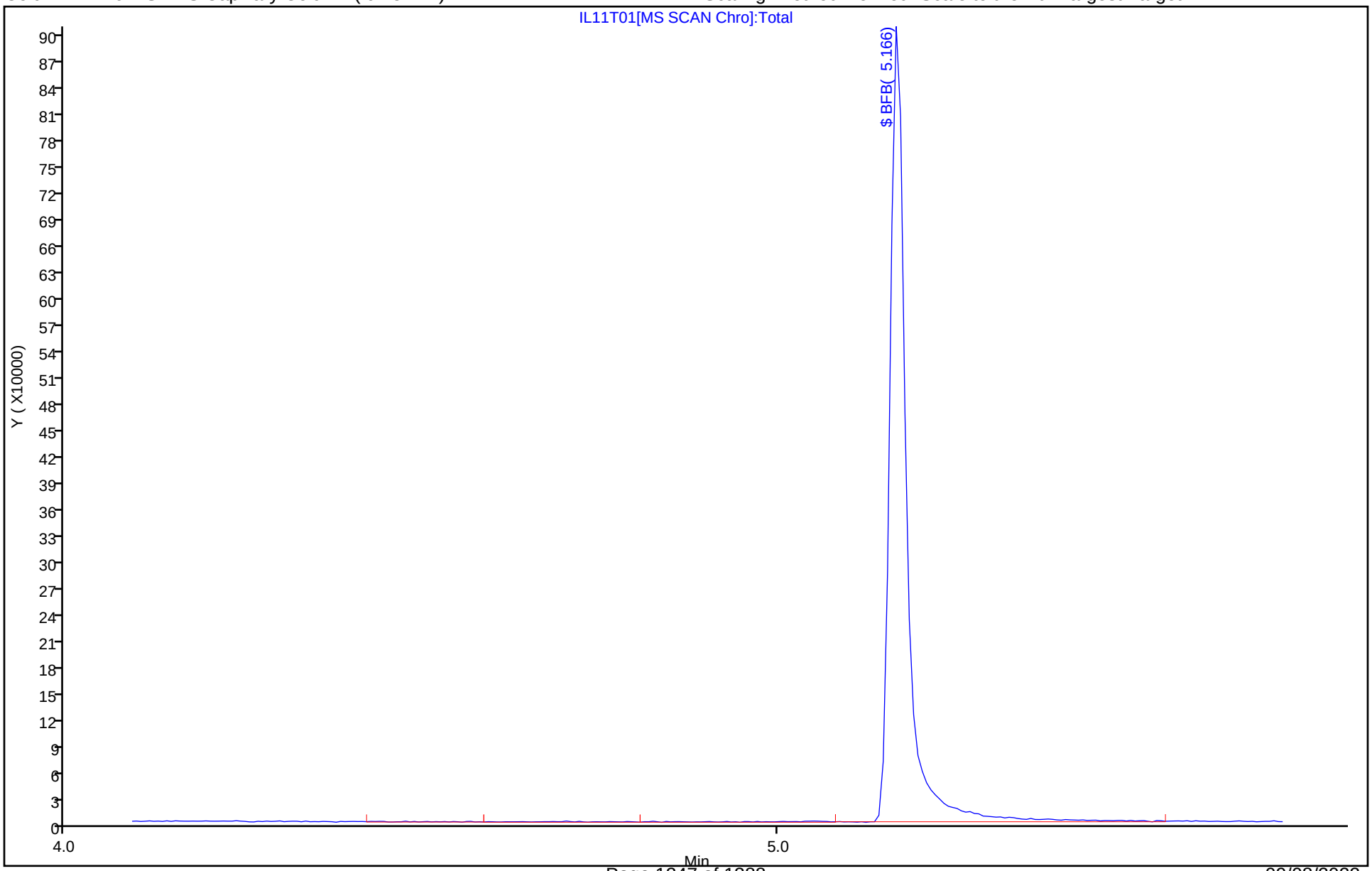
Report Date: 14-Jul-2022 14:44:03 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11T01.D

Injection Date:	11-Jul-2022 15:02:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	12-Jul-2022 14:39:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0061619-001				
Misc. Info.:	BFB				
Operator ID:	kas02648	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220712-61619.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	14-Jul-2022 16:32:28	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1670				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 145 BFB	95	5.172	5.172	0.000	0	69439	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

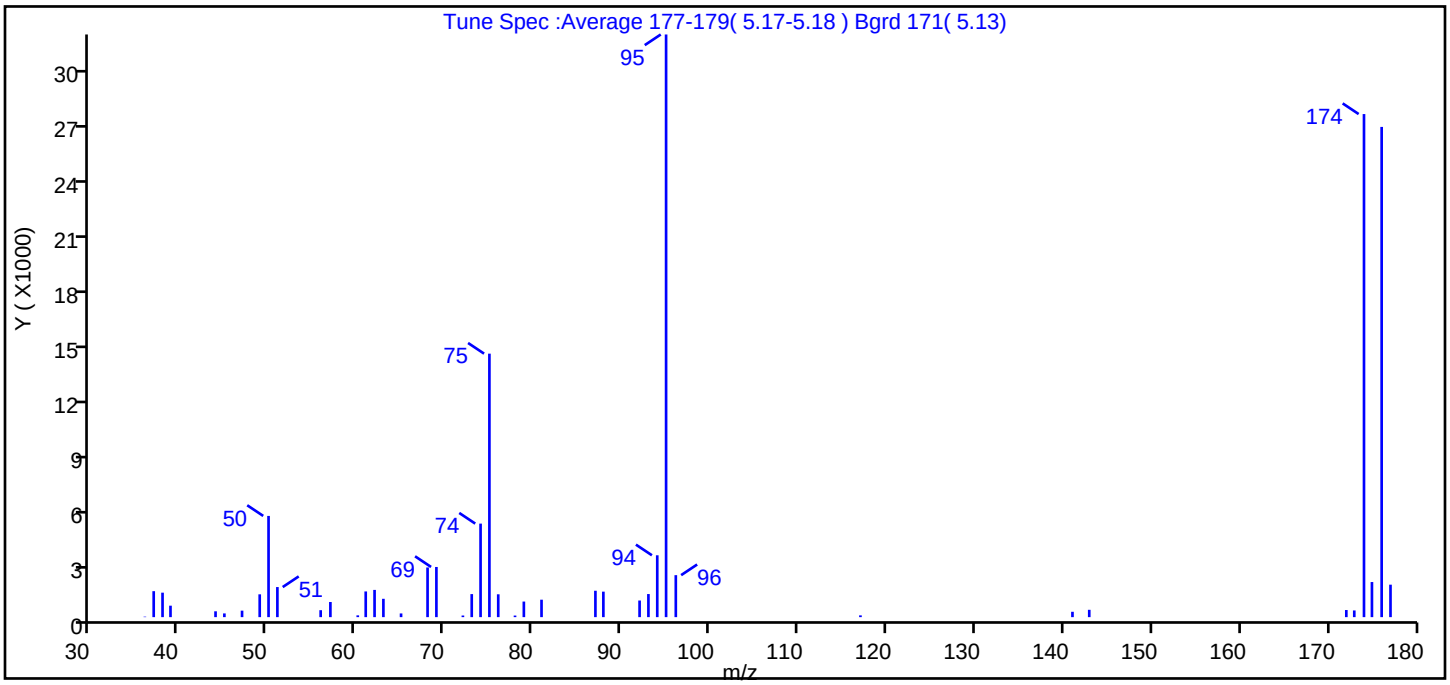
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12T01.D
Injection Date: 12-Jul-2022 14:39:30 Instrument ID: 19930
Lims ID: bfb
Client ID:
Operator ID: kas02648 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 145 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.4
75	30 to 60% of m/z 95	45.2
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	1.1 (1.3)
174	50 to 120% of m/z 95	86.3
175	5 to 9% of m/z 174	6.0 (7.0)
176	Greater than 95% but less than 101% of m/z 174	84.1 (97.4)
177	5 to 9% of m/z 176	5.6 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 12-Jul-2022 14:39:30
Spectrum: Tune Spec :Average 177-179(5.17-5.18) Bgrd 171(5.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

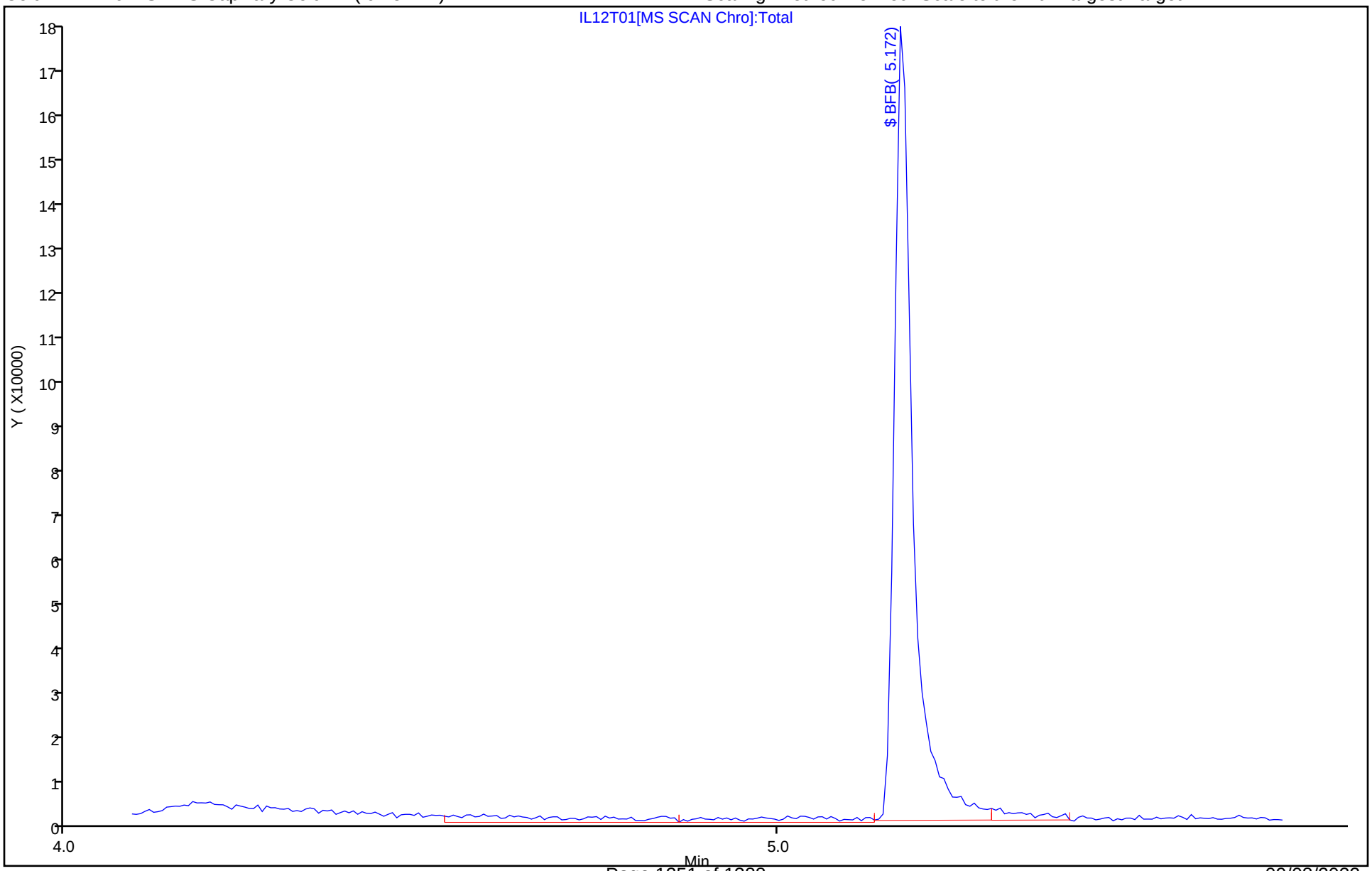
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	26	57.00	829	75.00	14435	96.00	2300
37.00	1423	60.00	98	76.00	1252	117.00	97
38.00	1341	61.00	1408	78.00	87	141.00	294
39.00	628	62.00	1492	79.00	854	143.00	402
44.00	320	63.00	1005	81.00	956	172.00	390
45.00	204	65.00	203	87.00	1446	173.00	367
47.00	356	68.00	2721	88.00	1397	174.00	27560
49.00	1250	69.00	2749	92.00	911	175.00	1923
50.00	5545	72.00	89	93.00	1265	176.00	26856
51.00	1648	73.00	1263	94.00	3389	177.00	1779
56.00	381	74.00	5124	95.00	31920		

Report Date: 14-Jul-2022 16:32:29 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220712-61619.b\IL12T01.D				
Injection Date:	12-Jul-2022 14:39:30	Instrument ID:	19930	Operator ID:	kas02648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31T02.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	31-Aug-2022 09:29:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 09:16:48	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				
First Level Reviewer: pongsawatp		Date:	01-Sep-2022 09:16:48		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 167 BFB	95	5.166	5.166	0.000	0	174889	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

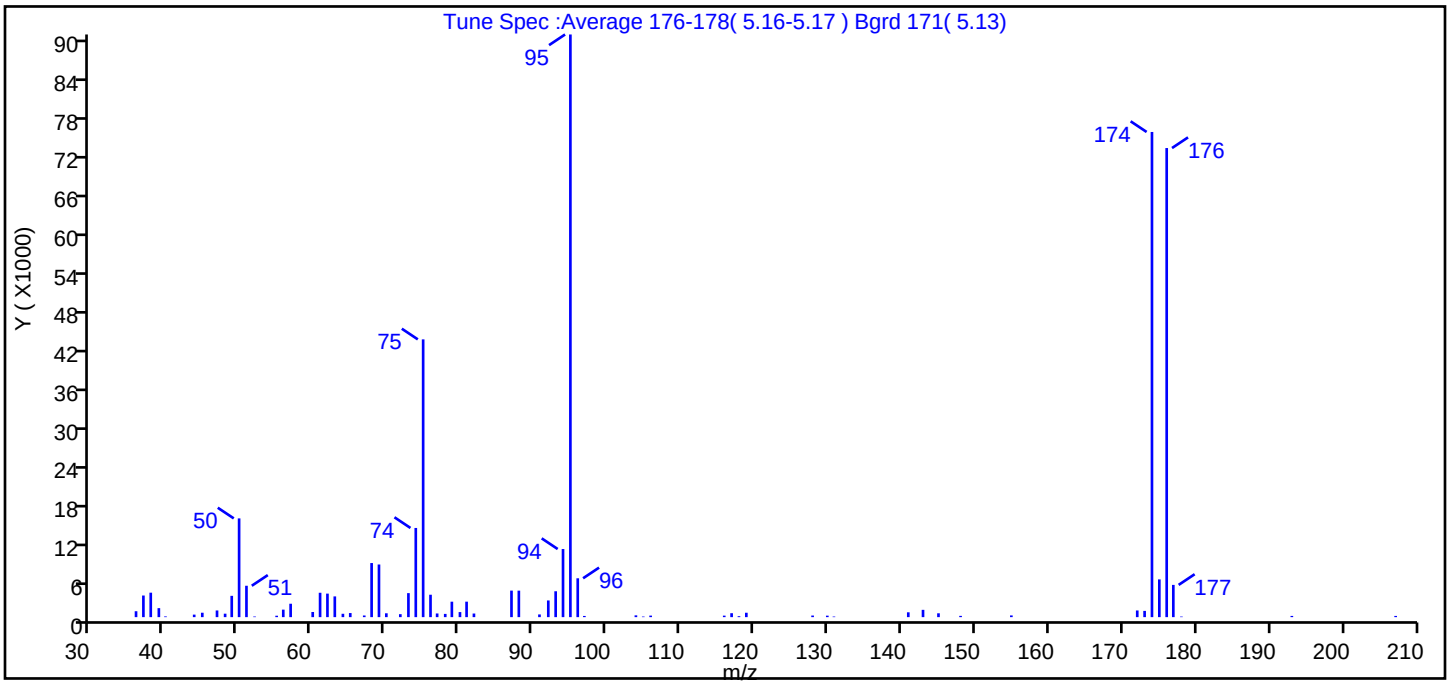
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31T02.D				
Injection Date:	31-Aug-2022 09:29:30	Instrument ID:	19930		
Lims ID:	BFB				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Tune Method:	BFB Method 8260				

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.9
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	1.1 (1.3)
174	50 to 120% of m/z 95	83.3
175	5 to 9% of m/z 174	6.5 (7.8)
176	Greater than 95% but less than 101% of m/z 174	80.5 (96.7)
177	5 to 9% of m/z 176	5.5 (6.9)

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31T02.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 31-Aug-2022 09:29:30
Spectrum: Tune Spec :Average 176-178(5.16-5.17) Bgrd 171(5.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	917	62.00	3642	82.00	560	130.00	229
37.00	3348	63.00	3211	87.00	4109	131.00	92
38.00	3787	64.00	522	88.00	4102	141.00	749
39.00	1393	65.00	634	91.00	420	143.00	1131
40.00	112	67.00	256	92.00	2584	145.00	596
44.00	392	68.00	8377	93.00	4007	148.00	198
45.00	684	69.00	8151	94.00	10546	155.00	266
47.00	1034	70.00	598	95.00	90216	172.00	1033
48.00	536	72.00	461	96.00	6017	173.00	967
49.00	3299	73.00	3719	97.00	185	174.00	75120
50.00	15290	74.00	13809	104.00	279	175.00	5845
51.00	4860	75.00	43008	105.00	91	176.00	72632
52.00	95	76.00	3471	106.00	238	177.00	4994
55.00	220	77.00	569	116.00	234	178.00	88
56.00	1162	78.00	503	117.00	611	193.00	190
57.00	2076	79.00	2393	118.00	147	207.00	189
60.00	797	80.00	784	119.00	681		
61.00	3775	81.00	2397	128.00	249		

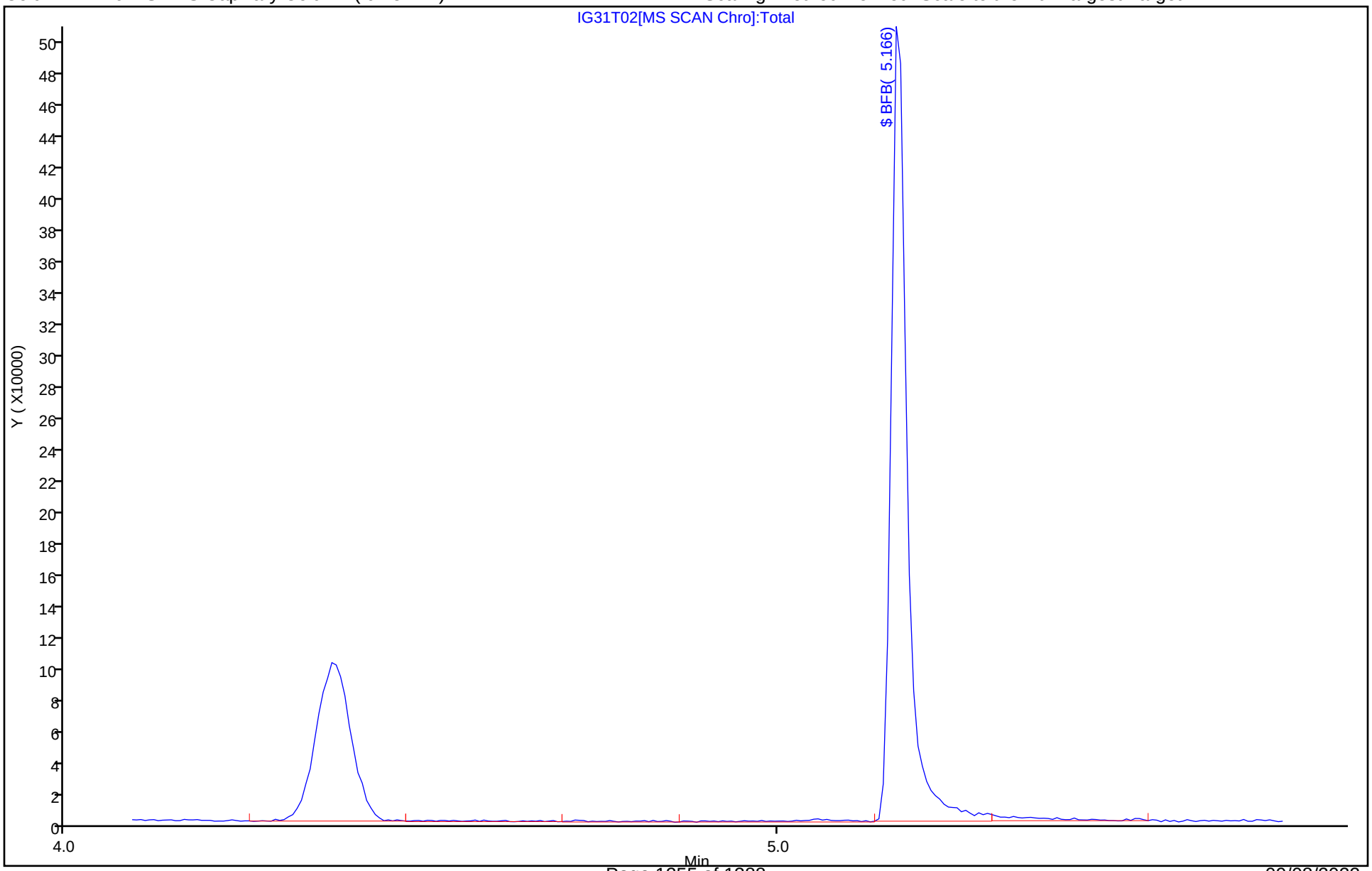
Report Date: 01-Sep-2022 09:16:49 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31T02.D

Injection Date:	31-Aug-2022 09:29:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Sep-2022 11:15:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0065465-001
Misc. Info.: BFB
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:57:48 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 167 BFB	95	5.172	5.172	0.000	95	233981	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

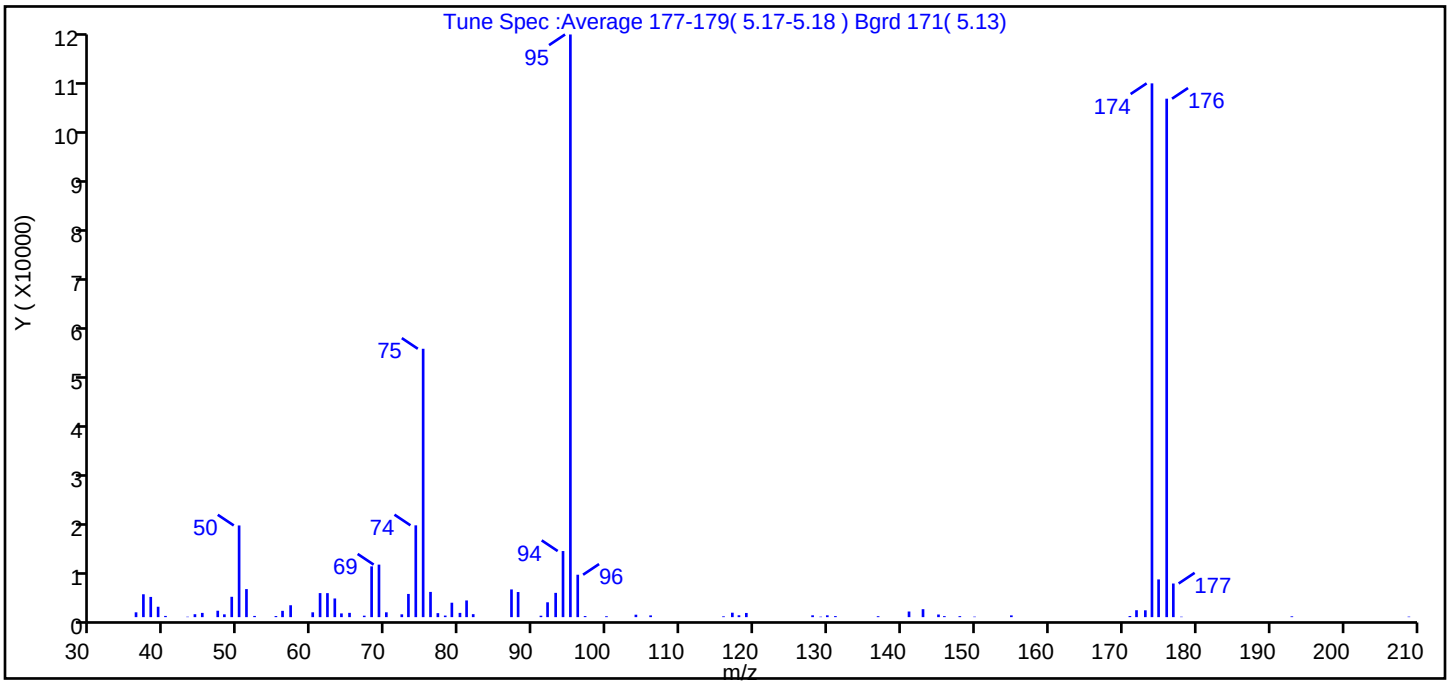
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01T01.D
Injection Date: 01-Sep-2022 11:15:30 Instrument ID: 19930
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.7
75	30 to 60% of m/z 95	46.1
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	1.2 (1.3)
174	50 to 120% of m/z 95	91.6
175	5 to 9% of m/z 174	6.5 (7.1)
176	Greater than 95% but less than 101% of m/z 174	89.0 (97.1)
177	5 to 9% of m/z 176	5.8 (6.5)

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 01-Sep-2022 11:15:30
Spectrum: Tune Spec :Average 177-179(5.17-5.18) Bgrd 171(5.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 76

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	965	62.00	4788	87.00	5529	131.00	211
37.00	4564	63.00	3724	88.00	5009	137.00	186
38.00	4033	64.00	747	91.00	283	141.00	1124
39.00	2075	65.00	857	92.00	2963	143.00	1589
40.00	243	67.00	292	93.00	4844	145.00	527
43.00	84	68.00	10127	94.00	13184	146.00	203
44.00	585	69.00	10476	95.00	116216	148.00	198
45.00	846	70.00	966	96.00	8461	150.00	99
47.00	1281	72.00	562	97.00	218	155.00	350
48.00	558	73.00	4629	100.00	181	171.00	220
49.00	4058	74.00	18312	104.00	489	172.00	1380
50.00	18288	75.00	53528	106.00	348	173.00	1364
51.00	5595	76.00	5033	116.00	161	174.00	106464
52.00	241	77.00	799	117.00	884	175.00	7525
55.00	221	78.00	310	118.00	374	176.00	103408
56.00	1257	79.00	2878	119.00	834	177.00	6709
57.00	2373	80.00	848	128.00	366	178.00	87
60.00	964	81.00	3330	129.00	92	193.00	162
61.00	4795	82.00	594	130.00	362	209.00	101

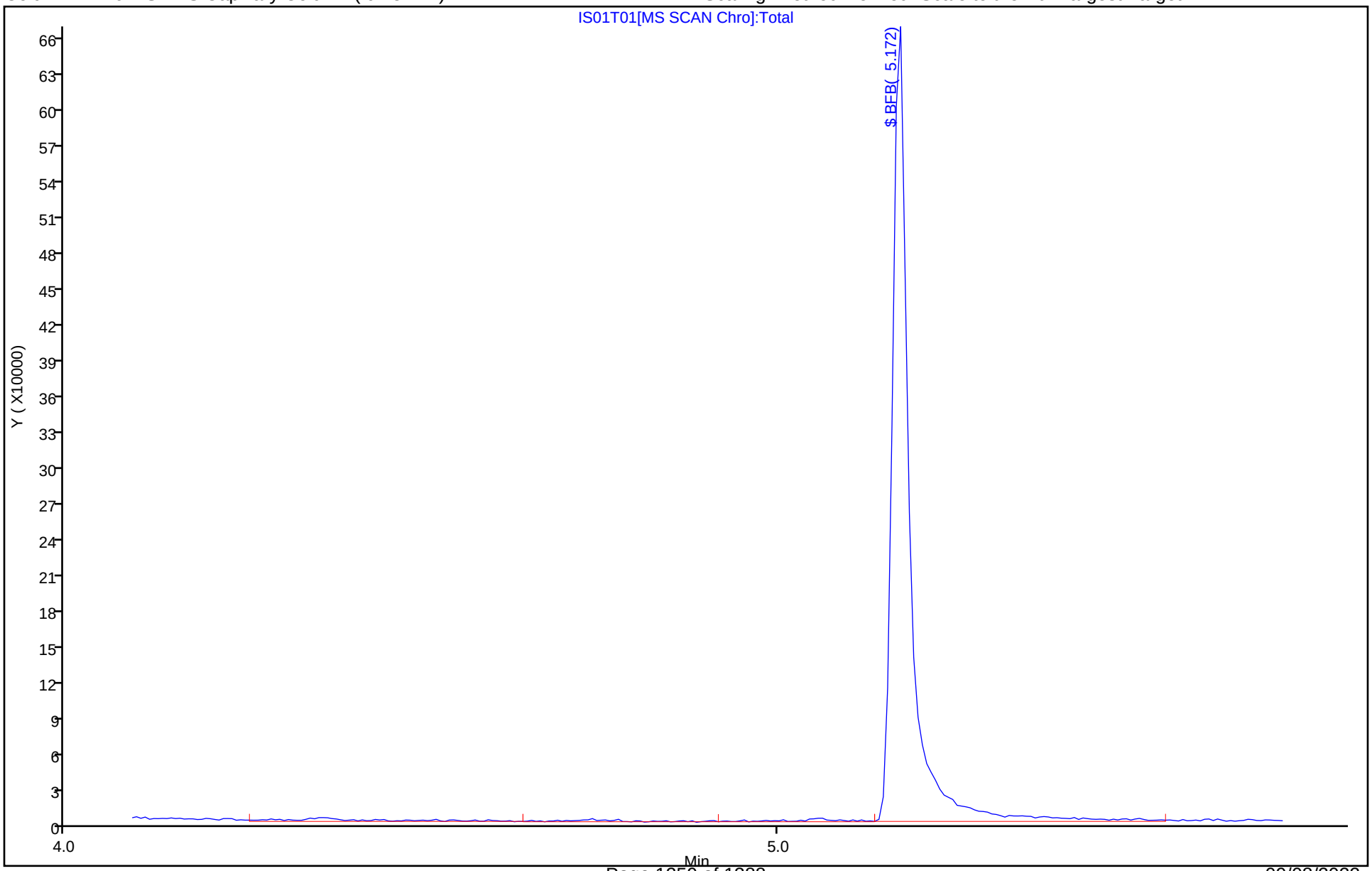
Report Date: 01-Sep-2022 13:57:48 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01T01.D

Injection Date:	01-Sep-2022 11:15:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-291418/6

Matrix: Water Lab File ID: IG31X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 11:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-291418/6

Matrix: Water Lab File ID: IG31X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 11:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Aug-2022 11:08:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 09:22:07 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: DVW2 Date: 31-Aug-2022 11:33:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.940					ND	
2 Chlorodifluoromethane	51		1.983					ND	
3 Dimethyl ether	45		2.044					ND	
4 Chloromethane	50		2.136					ND	
5 Vinyl chloride	62		2.245					ND	
6 Butadiene	39		2.264					ND	7
7 Bromomethane	94		2.593					ND	
8 Chloroethane	64		2.696					ND	
9 Dichlorofluoromethane	67		2.904					ND	
10 Trichlorofluoromethane	101		2.946					ND	
11 Ethyl ether	59		3.239					ND	
13 1,2-Dichloro-1,1,2-trifluoroetha	67		3.306					ND	
14 Acrolein	56		3.416					ND	7
15 1,1-Dichloroethene	96		3.556					ND	
16 Acetone	43		3.574					ND	U
17 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.611					ND	
18 Iodomethane	142		3.757					ND	
19 Ethyl bromide	108		3.788					ND	
20 Carbon disulfide	76		3.861					ND	7
21 Acetonitrile	41		3.983					ND	
23 Methyl acetate	43		4.001					ND	
24 3-Chloro-1-propene	41		4.032					ND	
25 Methylene Chloride	84		4.221					ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.245	4.251	-0.006	19	148940	50.0	50.0	
27 2-Methyl-2-propanol	59		4.355					ND	
28 Acrylonitrile	53		4.556					ND	
29 Methyl tert-butyl ether	73		4.635					ND	
30 trans-1,2-Dichloroethene	96		4.647					ND	
31 Hexane	57		5.062					ND	
32 1,1-Dichloroethane	63		5.293					ND	
33 Vinyl acetate	43		5.312					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	35 Isopropyl ether	45		5.361				ND		
	36 2-Chloro-1,3-butadiene	53		5.403				ND		
	37 Tert-butyl ethyl ether	59		5.891				ND		
	38 2-Butanone (MEK)	43		6.086				ND		
	39 cis-1,2-Dichloroethene	96		6.123				ND		
	40 2,2-Dichloropropane	77		6.135				ND		
S	41 1,2-Dichloroethene, Total	100		6.155				ND		7
	43 Propionitrile	54		6.171				ND		
	42 Ethyl acetate	43		6.171				ND		
	44 Methyl acrylate	55		6.220				ND		
	45 Methacrylonitrile	67		6.385				ND		
	46 Chlorobromomethane	128		6.452				ND		
	47 Tetrahydrofuran	71		6.458				ND		
	48 Chloroform	83		6.604				ND		
$	49 Dibromofluoromethane (Surr)	113	6.817	6.811	0.006	94	494350	10.0	10.9	
	50 1,1,1-Trichloroethane	97		6.824				ND		
	51 Cyclohexane	56		6.927				ND		
	52 1-Chlorobutane	56		7.019				ND		
	53 1,1-Dichloropropene	75		7.037				ND		
	54 Carbon tetrachloride	117		7.043				ND		
	55 Isobutyl alcohol	41		7.177				ND		
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	56	98969	10.0	10.6	
	57 Benzene	78		7.299				ND		
	58 1,2-Dichloroethane	62		7.372				ND		
	59 Isopropyl acetate	43		7.391				ND		
	60 Tert-amyl methyl ether	73		7.494				ND		
*	61 Fluorobenzene (IS)	96	7.708	7.702	0.006	99	1811520	10.0	10.0	
	62 n-Heptane	43		7.714				ND		U
	63 n-Butanol	56		8.061				ND		
	64 Trichloroethene	95		8.183				ND		
	65 Methylcyclohexane	83		8.494				ND		7
	66 1,2-Dichloropropane	63		8.506				ND		
	67 Methyl methacrylate	69		8.592				ND		
	68 1,4-Dioxane	88		8.598				ND		
	69 Dibromomethane	93		8.616				ND		
	70 n-Propyl acetate	43		8.683				ND		
	71 Dichlorobromomethane	83		8.854				ND		
	72 2-Nitropropane	41		9.116				ND		
	73 2-Chloroethyl vinyl ether	63		9.226				ND		
	74 Chloroacetonitrile	75		9.226				ND		
	75 1-Bromo-2-chloroethane	63		9.244				ND		
	76 cis-1,3-Dichloropropene	75		9.396				ND		
	77 4-Methyl-2-pentanone (MIBK)	43		9.561				ND		
$	78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	1912739	10.0	9.69	
	79 Toluene	92		9.780				ND		
	97 trans-1,3-Dichloropropene	75		10.036				ND		
S	98 1,3-Dichloropropene, Total	100		10.060				ND		7
	99 Ethyl methacrylate	69		10.097				ND		
	100 1,1,2-Trichloroethane	97		10.238				ND		
	101 Tetrachloroethene	166		10.329				ND		
	102 1,3-Dichloropropane	76		10.402				ND		
	103 2-Hexanone	43		10.445				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 n-Butyl acetate	43		10.573					ND	
105 Chlorodibromomethane	129		10.616					ND	
106 Ethylene Dibromide	107		10.725					ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1520443	10.0	10.0	
108 1-Chlorohexane	91		11.164					ND	7
109 Chlorobenzene	112		11.183					ND	
S 110 Xylenes, Total	106		11.245					ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262					ND	
112 Ethylbenzene	91		11.268					ND	
113 m-Xylene & p-Xylene	106		11.384					ND	
114 o-Xylene	106		11.713					ND	
115 Styrene	104		11.725					ND	
116 Bromoform	173		11.884					ND	
117 Isopropylbenzene	105		12.012					ND	
119 Cyclohexanone	55		12.097					ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	91	676032	10.0	9.34	
118 cis-1,4-Dichloro-2-butene	88		12.158					ND	U
121 1,1,2,2-Tetrachloroethane	83		12.249					ND	
122 Bromobenzene	156		12.274					ND	
123 trans-1,4-Dichloro-2-butene	53		12.274					ND	
124 1,2,3-Trichloropropane	110		12.298					ND	
125 N-Propylbenzene	91		12.335					ND	
126 2-Chlorotoluene	126		12.414					ND	
127 1,3,5-Trimethylbenzene	105		12.475					ND	7
128 4-Chlorotoluene	126		12.505					ND	
129 tert-Butylbenzene	134		12.713					ND	7
130 Pentachloroethane	167		12.749					ND	
131 1,2,4-Trimethylbenzene	105		12.755					ND	7
132 sec-Butylbenzene	105		12.877					ND	7
133 1,3-Dichlorobenzene	146		12.981					ND	
134 4-Isopropyltoluene	119		12.987					ND	7
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	820712	10.0	10.0	
136 1,4-Dichlorobenzene	146		13.054					ND	7
137 1,2,3-Trimethylbenzene	120		13.060					ND	7
138 Benzyl chloride	126		13.127					ND	
139 n-Butylbenzene	92		13.274					ND	7
140 1,2-Dichlorobenzene	146		13.310					ND	
141 Hexachloroethane	117		13.542					ND	
142 1,2-Dibromo-3-Chloropropane	155		13.853					ND	
143 1,3,5-Trichlorobenzene	180		13.981					ND	7
144 1,2,4-Trichlorobenzene	180		14.401					ND	7
145 Hexachlorobutadiene	225	14.487	14.481	0.006	82	1785		0.0523	
146 Naphthalene	128		14.584					ND	7
147 1,2,3-Trichlorobenzene	180		14.725					ND	U
148 Dodecane	57		0.000					ND	
149 2-Chloro-1,1,1-Trifluoroethane	1		0.000					ND	
150 2-ethoxy-2-methyl butane	1		0.000					ND	
151 1,1-Dichloroacetone	1		0.000					ND	
152 n-Decane	57		0.000					ND	
153 1-Bromo-3-Chloropropane	1		0.000					ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
155 2-Methylnaphthalene	142		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
156 p-Diethylbenzene	1		0.000					ND	
157 t-Amyl alcohol	1		0.000					ND	
158 Methylal	1		0.000					ND	
159 tert-Butyl Formate	1		0.000					ND	
160 2-Bromo-1-chloropropane	1		0.000					ND	
161 Pentane	43		0.000					ND	
162 Chlorotrifluoroethene	1		0.000					ND	
163 Propene oxide	1		0.000					ND	
164 1-Chloropropane	1		0.000					ND	
165 Isopropyl alcohol	45		0.000					ND	
166 Ethanol	45		3.269					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

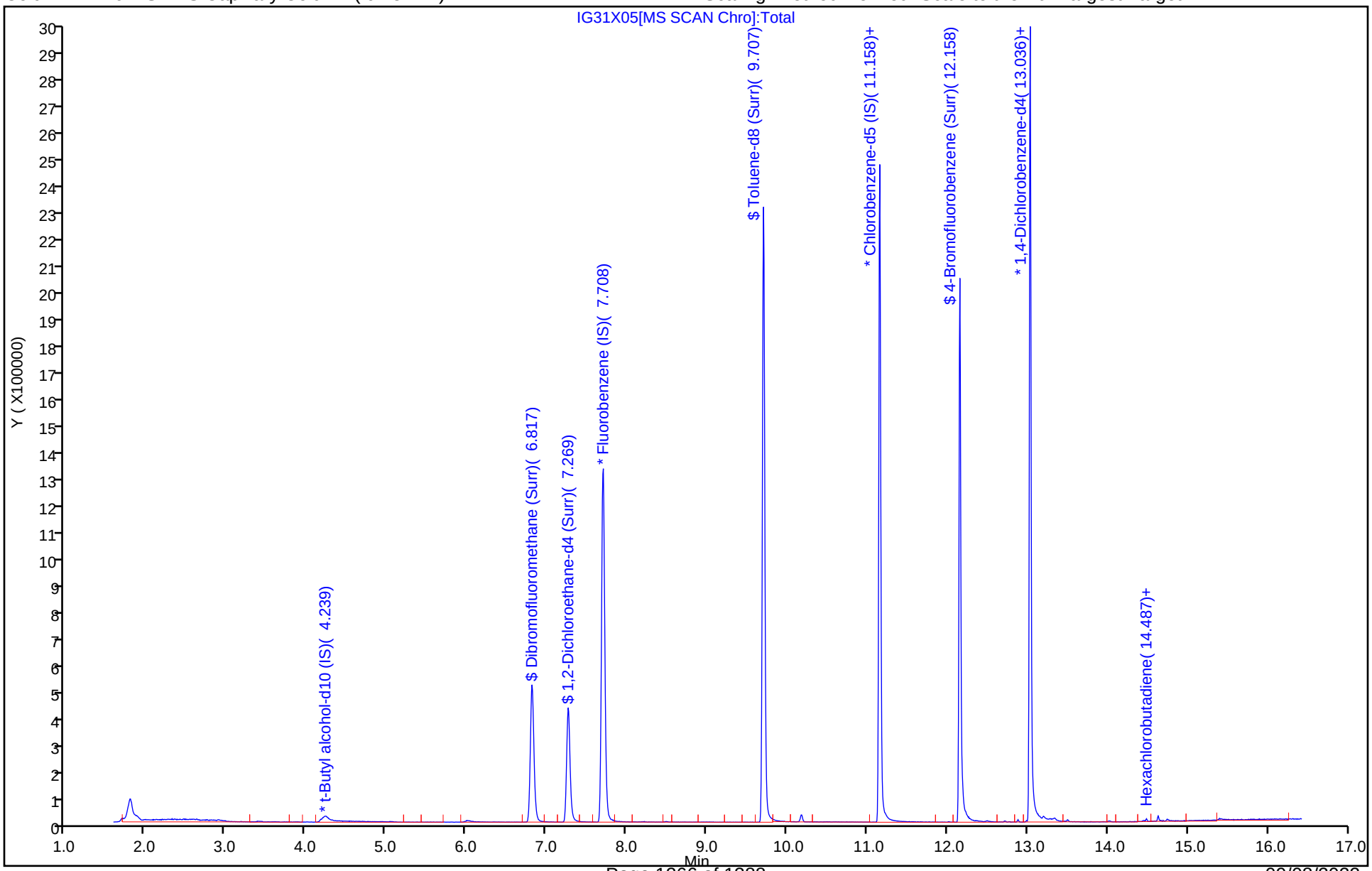
Report Date: 01-Sep-2022 09:22:07 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X05.D

Injection Date:	31-Aug-2022 11:08:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Aug-2022 11:08:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 09:22:07 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: DVW2 Date: 31-Aug-2022 11:33:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	10.9	108.70
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.95
$ 78 Toluene-d8 (Surr)	10.0	9.69	96.94
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.34	93.44

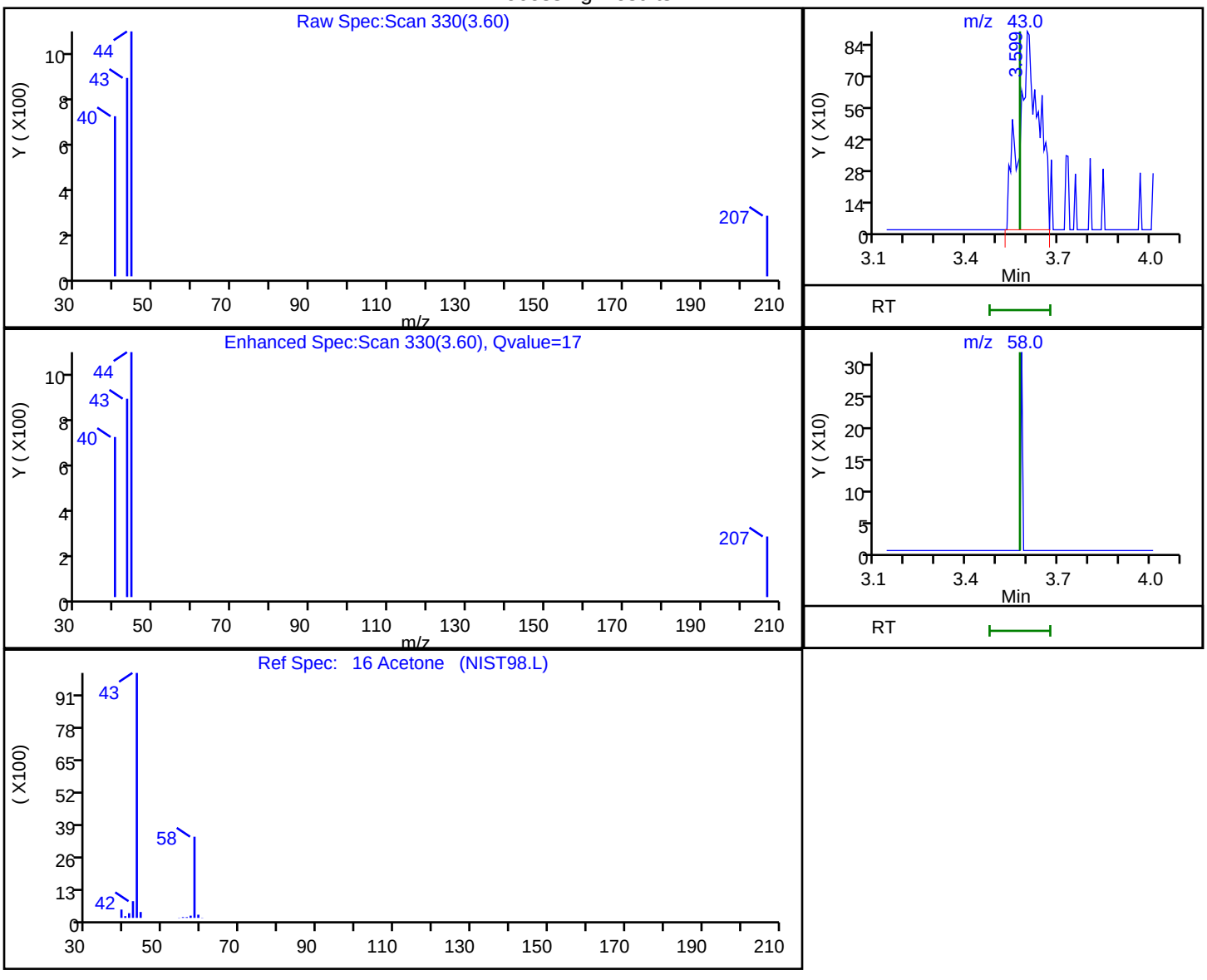
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X05.D				
Injection Date:	31-Aug-2022 11:08:30	Instrument ID:	19930		
Lims ID:	MB				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.60	43.00	3964	0.482399
3.57	58.00	0	

Reviewer: pongsawatp, 01-Sep-2022 09:21:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-291906/7

Matrix: Water Lab File ID: IS01X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 13:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.04	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-291906/7

Matrix: Water Lab File ID: IS01X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 13:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Sep-2022 13:15:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065465-007
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:57:21 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: DVW2 Date: 01-Sep-2022 13:57:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.947					ND	
2 Chlorodifluoromethane	51		1.983					ND	
3 Dimethyl ether	45		2.044					ND	
4 Chloromethane	50		2.148					ND	
5 Vinyl chloride	62		2.251					ND	
6 Butadiene	39		2.264					ND	7
7 Bromomethane	94		2.599					ND	
8 Chloroethane	64		2.690					ND	
9 Dichlorofluoromethane	67		2.910					ND	
10 Trichlorofluoromethane	101		2.952					ND	
11 Ethyl ether	59		3.251					ND	
13 1,2-Dichloro-1,1,2-trifluoroetha	67		3.324					ND	
14 Acrolein	56		3.428					ND	7
15 1,1-Dichloroethene	96		3.568					ND	
16 Acetone	43	3.611	3.586	0.025	63	10476		1.04	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.611					ND	
18 Iodomethane	142		3.769					ND	
19 Ethyl bromide	108		3.794					ND	
20 Carbon disulfide	76		3.879					ND	7
21 Acetonitrile	41		3.983					ND	
23 Methyl acetate	43		4.013					ND	
24 3-Chloro-1-propene	41		4.044					ND	
25 Methylene Chloride	84		4.239					ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.239	4.245	-0.006	20	183168	50.0	50.0	
27 2-Methyl-2-propanol	59		4.367					ND	
28 Acrylonitrile	53		4.580					ND	
29 Methyl tert-butyl ether	73		4.641					ND	
30 trans-1,2-Dichloroethene	96		4.653					ND	
31 Hexane	57		5.068					ND	7
32 1,1-Dichloroethane	63		5.306					ND	
33 Vinyl acetate	43		5.312					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	35 Isopropyl ether	45		5.367					ND	
	36 2-Chloro-1,3-butadiene	53		5.409					ND	
	37 Tert-butyl ethyl ether	59		5.903					ND	
	38 2-Butanone (MEK)	43		6.092					ND	7
	39 cis-1,2-Dichloroethene	96		6.129					ND	
	40 2,2-Dichloropropane	77		6.141					ND	7
S	41 1,2-Dichloroethene, Total	100		6.155					ND	7
	42 Ethyl acetate	43		6.171					ND	
	43 Propionitrile	54		6.177					ND	
	44 Methyl acrylate	55		6.220					ND	
	45 Methacrylonitrile	67		6.397					ND	
	46 Chlorobromomethane	128		6.458					ND	
	47 Tetrahydrofuran	71		6.470					ND	
	48 Chloroform	83		6.610					ND	
$	49 Dibromofluoromethane (Surr)	113	6.818	6.818	0.000	94	676716	10.0	10.6	
	50 1,1,1-Trichloroethane	97		6.830					ND	
	51 Cyclohexane	56		6.933					ND	
	52 1-Chlorobutane	56		7.019					ND	
	53 1,1-Dichloropropene	75		7.043					ND	
	54 Carbon tetrachloride	117		7.049					ND	
	55 Isobutyl alcohol	41		7.189					ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.269	0.006	56	138404	10.0	10.5	
	57 Benzene	78		7.305					ND	
	58 1,2-Dichloroethane	62		7.372					ND	
	59 Isopropyl acetate	43		7.391					ND	
	60 Tert-amyl methyl ether	73		7.494					ND	
*	61 Fluorobenzene (IS)	96	7.708	7.708	0.000	99	2552567	10.0	10.0	
	62 n-Heptane	43		7.720					ND	U
	63 n-Butanol	56		8.061					ND	
	64 Trichloroethene	95		8.183					ND	
	65 Methylcyclohexane	83		8.494					ND	7
	66 1,2-Dichloropropane	63		8.512					ND	
	67 Methyl methacrylate	69		8.592					ND	
	68 1,4-Dioxane	88		8.604					ND	
	69 Dibromomethane	93		8.622					ND	
	70 n-Propyl acetate	43		8.683					ND	
	71 Dichlorobromomethane	83		8.854					ND	
	72 2-Nitropropane	41		9.116					ND	
	73 2-Chloroethyl vinyl ether	63		9.226					ND	
	74 Chloroacetonitrile	75		9.226					ND	
	75 1-Bromo-2-chloroethane	63		9.250					ND	
	76 cis-1,3-Dichloropropene	75		9.396					ND	
	77 4-Methyl-2-pentanone (MIBK)	43		9.567					ND	
$	78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	2530741	10.0	10.1	
	79 Toluene	92		9.780					ND	
	97 trans-1,3-Dichloropropene	75		10.036					ND	
S	98 1,3-Dichloropropene, Total	100		10.060					ND	7
	99 Ethyl methacrylate	69		10.097					ND	
	100 1,1,2-Trichloroethane	97		10.238					ND	
	101 Tetrachloroethene	166		10.329					ND	
	102 1,3-Dichloropropane	76		10.402					ND	
	103 2-Hexanone	43		10.451					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 n-Butyl acetate	43		10.573					ND	
105 Chlorodibromomethane	129		10.616					ND	
106 Ethylene Dibromide	107		10.731					ND	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1931627	10.0	10.0	
108 1-Chlorohexane	91		11.164					ND	7
109 Chlorobenzene	112		11.183					ND	
S 110 Xylenes, Total	106		11.245					ND	7
111 1,1,1,2-Tetrachloroethane	131		11.262					ND	
112 Ethylbenzene	91		11.268					ND	
113 m-Xylene & p-Xylene	106		11.384					ND	
114 o-Xylene	106		11.713					ND	
115 Styrene	104		11.725					ND	
116 Bromoform	173		11.884					ND	
117 Isopropylbenzene	105		12.012					ND	
119 Cyclohexanone	55		12.097					ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	92	847545	10.0	9.22	
118 cis-1,4-Dichloro-2-butene	88		12.158					ND	
121 1,1,2,2-Tetrachloroethane	83		12.249					ND	
122 Bromobenzene	156		12.274					ND	
123 trans-1,4-Dichloro-2-butene	53		12.274					ND	
124 1,2,3-Trichloropropane	110		12.298					ND	
125 N-Propylbenzene	91		12.335					ND	
126 2-Chlorotoluene	126		12.414					ND	
127 1,3,5-Trimethylbenzene	105		12.475					ND	7
128 4-Chlorotoluene	126		12.505					ND	
129 tert-Butylbenzene	134		12.713					ND	7
130 Pentachloroethane	167		12.749					ND	
131 1,2,4-Trimethylbenzene	105		12.755					ND	7
132 sec-Butylbenzene	105		12.877					ND	7
133 1,3-Dichlorobenzene	146		12.981					ND	
134 4-Isopropyltoluene	119		12.987					ND	7
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1016254	10.0	10.0	
136 1,4-Dichlorobenzene	146		13.054					ND	7
137 1,2,3-Trimethylbenzene	120		13.060					ND	7
138 Benzyl chloride	126		13.127					ND	
139 n-Butylbenzene	92		13.274					ND	7
140 1,2-Dichlorobenzene	146		13.310					ND	
141 Hexachloroethane	117		13.542					ND	
142 1,2-Dibromo-3-Chloropropane	155		13.853					ND	
143 1,3,5-Trichlorobenzene	180		13.981					ND	7
144 1,2,4-Trichlorobenzene	180		14.401					ND	U
145 Hexachlorobutadiene	225	14.493	14.481	0.012	91	2297		0.0543	
146 Naphthalene	128		14.584					ND	7
147 1,2,3-Trichlorobenzene	180		14.725					ND	U
148 Dodecane	57		0.000					ND	
149 2-Chloro-1,1,1-Trifluoroethane	1		0.000					ND	
150 2-ethoxy-2-methyl butane	1		0.000					ND	
151 1,1-Dichloroacetone	1		0.000					ND	
152 n-Decane	57		0.000					ND	
153 1-Bromo-3-Chloropropane	1		0.000					ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
155 2-Methylnaphthalene	142		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
156 p-Diethylbenzene	1		0.000					ND	
157 t-Amyl alcohol	1		0.000					ND	
158 Methylal	1		0.000					ND	
159 tert-Butyl Formate	1		0.000					ND	
160 2-Bromo-1-chloropropane	1		0.000					ND	
161 Pentane	43		0.000					ND	
162 Chlorotrifluoroethene	1		0.000					ND	
163 Propene oxide	1		0.000					ND	
164 1-Chloropropane	1		0.000					ND	
165 Isopropyl alcohol	45		0.000					ND	
166 Ethanol	45		3.269					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

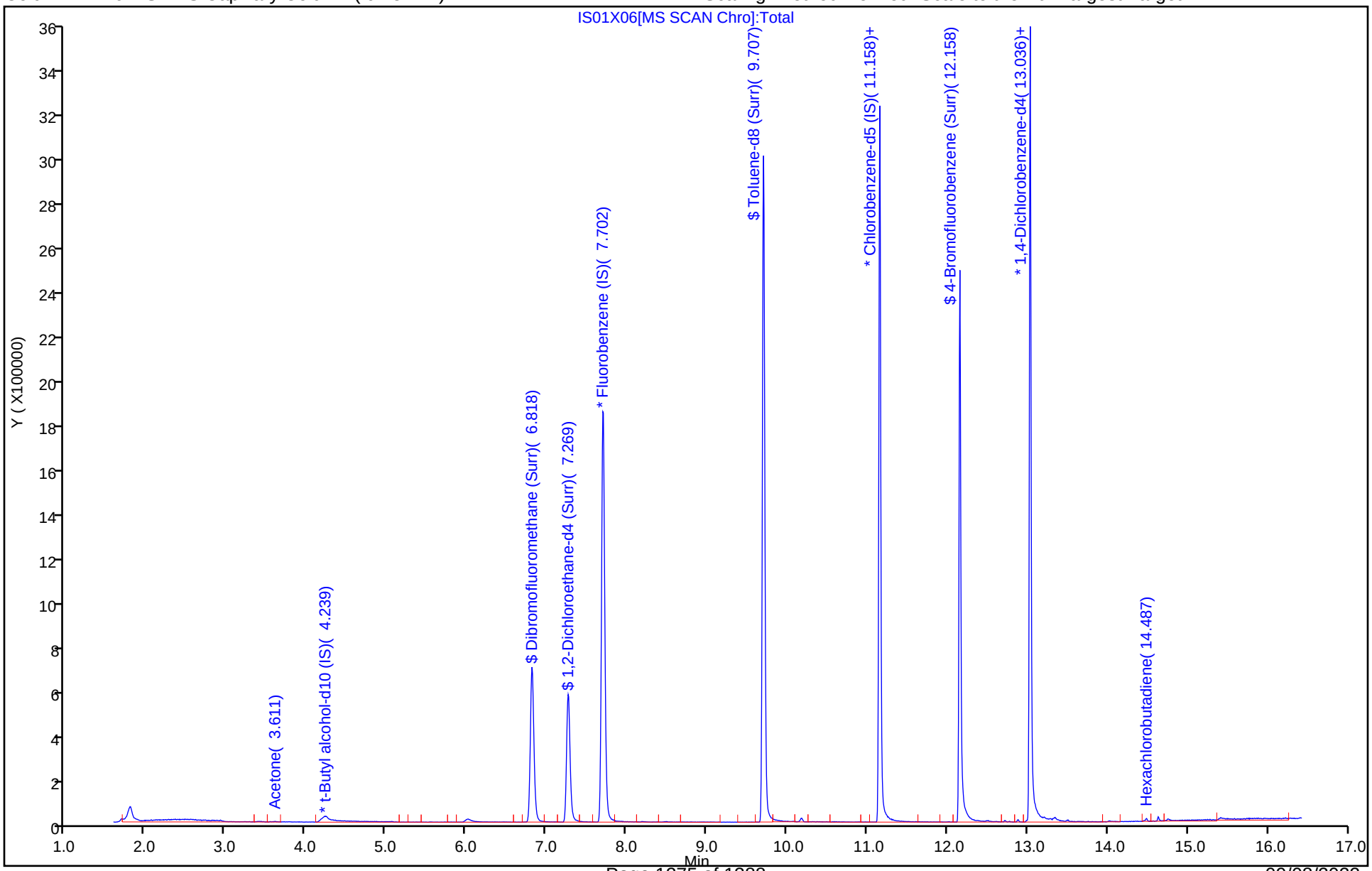
Report Date: 01-Sep-2022 13:57:45 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X06.D

Injection Date:	01-Sep-2022 13:15:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Sep-2022 13:15:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065465-007
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:57:21 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

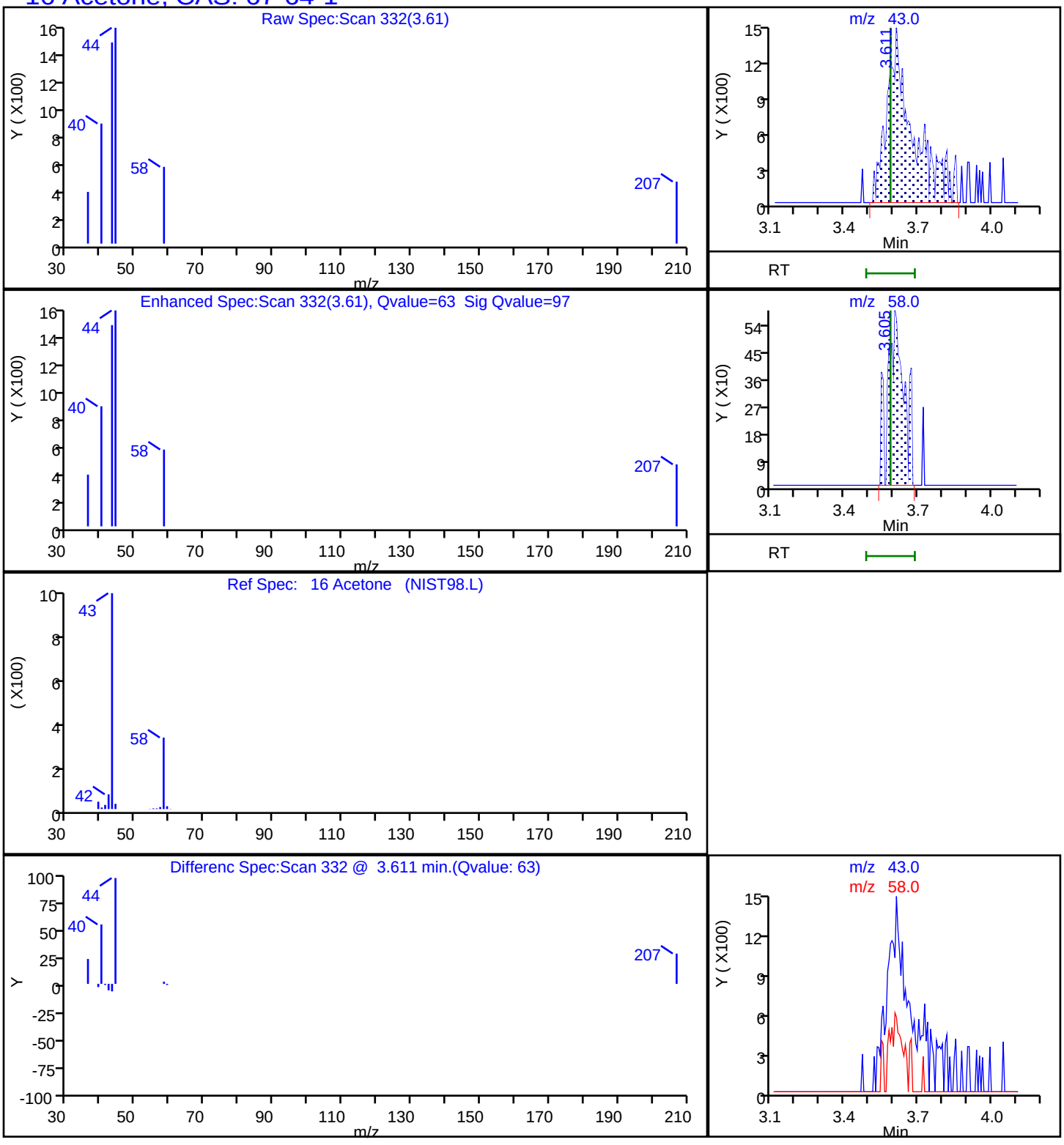
First Level Reviewer: DVW2 Date: 01-Sep-2022 13:57:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	10.6	105.60
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.15
$ 78 Toluene-d8 (Surr)	10.0	10.1	100.96
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.22	92.21

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X06.D
Injection Date: 01-Sep-2022 13:15:30 Instrument ID: 19930
Lims ID: MB
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

16 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-292752/10

Matrix: Water Lab File ID: CS05X09.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 13:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292752 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-292752/10

Matrix: Water Lab File ID: CS05X09.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 13:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292752 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X09.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Sep-2022 13:27:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065639-010
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Sep-2022 12:40:58 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: DVW2 Date: 05-Sep-2022 13:58:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.727					ND	
2 Dichlorodifluoromethane	85		1.751					ND	
3 Chlorodifluoromethane	51		1.770					ND	7
4 Dimethyl ether	45		1.818					ND	7
5 Chloromethane	50		1.928					ND	
6 Vinyl chloride	62		2.032					ND	
7 Butadiene	39		2.044					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.111					ND	
9 Bromomethane	94		2.324					ND	
10 Chloroethane	64		2.391					ND	
11 Dichlorofluoromethane	67		2.605					ND	7
12 Trichlorofluoromethane	101		2.666					ND	
13 Pentane	43		2.666					ND	U
15 Ethyl ether	59		2.855					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		2.952					ND	7
17 Acrolein	56		3.007					ND	7
19 1,1-Dichloroethene	96		3.123					ND	
20 Acetone	43	3.154	3.153	0.001	0	6018		0.9200	M
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.172					ND	
22 Iodomethane	142		3.294					ND	
23 Isopropyl alcohol	45		3.312					ND	U
24 Ethyl bromide	108		3.318					ND	
25 Carbon disulfide	76		3.379					ND	7
26 Acetonitrile	41		3.507					ND	7
27 Methyl acetate	43		3.519					ND	7
28 3-Chloro-1-propene	41		3.531					ND	
29 Methylene Chloride	84		3.702					ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.733	3.745	-0.012	91	126977	50.0	50.0	
31 2-Methyl-2-propanol	59		3.836					ND	
32 Acrylonitrile	53		4.013					ND	
33 Methyl tert-butyl ether	73		4.062					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	34 trans-1,2-Dichloroethene	96		4.062					ND	
	35 Hexane	57		4.464					ND	
	36 1,1-Dichloroethane	63		4.708					ND	
	37 Vinyl acetate	43		4.726					ND	
	38 Isopropyl ether	45		4.769					ND	
	39 2-Chloro-1,3-butadiene	53		4.818					ND	
	40 Tert-butyl ethyl ether	59		5.324					ND	7
	41 2-Butanone (MEK)	43		5.537					ND	7
	42 cis-1,2-Dichloroethene	96		5.562					ND	
	43 2,2-Dichloropropane	77		5.568					ND	7
	44 Ethyl acetate	43		5.610					ND	7
	45 Propionitrile	54		5.641					ND	
	46 Methacrylonitrile	67		5.854					ND	
	47 Chlorobromomethane	128		5.903					ND	
	48 Tetrahydrofuran	71		5.909					ND	
	49 Methyl acrylate	55		6.013					ND	
	50 Chloroform	83		6.061					ND	
S	51 1,2-Dichloroethene, Total	100		6.155					ND	7
	52 1,1,1-Trichloroethane	97		6.281					ND	
$	53 Dibromofluoromethane (Surr)	113	6.287	6.281	0.006	94	425593	10.0	10.2	
	54 Cyclohexane	56		6.378					ND	
	55 Carbon tetrachloride	117		6.488					ND	
	56 1,1-Dichloropropene	75		6.500					ND	
	57 Isobutyl alcohol	41		6.708					ND	
$	58 1,2-Dichloroethane-d4 (Surr)	102	6.744	6.744	0.000	47	89718	10.0	10.4	
	59 Benzene	78		6.769					ND	
	60 1-Chlorobutane	56		6.781					ND	
	61 1,2-Dichloroethane	62		6.848					ND	
	62 Isopropyl acetate	43		6.885					ND	
	63 Tert-amyl methyl ether	73		6.976					ND	
*	64 Fluorobenzene (IS)	96	7.189	7.189	0.000	99	1792297	10.0	10.0	
	65 n-Heptane	43		7.201					ND	7
	66 n-Butanol	56		7.610					ND	
	67 Trichloroethene	95		7.677					ND	
	68 Methylcyclohexane	83		7.976					ND	
	69 1,2-Dichloropropane	63		8.012					ND	
	70 2-ethoxy-2-methyl butane	87		8.037					ND	
	72 1,4-Dioxane	88		8.116					ND	
	71 Methyl methacrylate	69		8.122					ND	
	73 Dibromomethane	93		8.128					ND	
	74 n-Propyl acetate	61		8.214					ND	
	75 Dichlorobromomethane	83		8.372					ND	
	76 2-Nitropropane	41		8.658					ND	
	77 2-Chloroethyl vinyl ether	63		8.762					ND	
	78 1-Bromo-2-chloroethane	63		8.768					ND	
	79 cis-1,3-Dichloropropene	75		8.945					ND	
	80 Chloroacetonitrile	75		9.067					ND	
	81 4-Methyl-2-pentanone (MIBK)	43		9.152					ND	7
$	82 Toluene-d8 (Surr)	98	9.274	9.280	-0.006	93	1813139	10.0	9.85	
	83 Toluene	92		9.360					ND	
	84 trans-1,3-Dichloropropene	75		9.658					ND	
	85 Ethyl methacrylate	69		9.731					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 1,1,2-Trichloroethane	97		9.872					ND	
87 Tetrachloroethene	166		9.951					ND	
102 1,3-Dichloropropane	76		10.042					ND	
S 103 1,3-Dichloropropene, Total	100		10.060					ND	7
104 2-Hexanone	43		10.109					ND	
105 n-Butyl acetate	43		10.244					ND	U
106 Chlorodibromomethane	129		10.262					ND	
107 Ethylene Dibromide	107		10.378					ND	
* 108 Chlorobenzene-d5 (IS)	117	10.829	10.829	0.000	85	1396432	10.0	10.0	
109 1-Chlorohexane	91		10.853					ND	7
110 Chlorobenzene	112		10.859					ND	
111 1,1,1,2-Tetrachloroethane	131		10.945					ND	
112 Ethylbenzene	91		10.951					ND	
113 m-Xylene & p-Xylene	106		11.073					ND	
S 114 Xylenes, Total	106		11.245					ND	7
115 o-Xylene	106		11.414					ND	
116 Styrene	104		11.432					ND	
117 Bromoform	173		11.585					ND	
118 Isopropylbenzene	105		11.725					ND	
119 cis-1,4-Dichloro-2-butene	88		11.780					ND	
120 Cyclohexanone	55		11.804					ND	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	95	660102	10.0	9.69	
123 1,1,2,2-Tetrachloroethane	83		11.987					ND	
122 Bromobenzene	156		11.987					ND	
124 trans-1,4-Dichloro-2-butene	53		12.012					ND	
125 1,2,3-Trichloropropane	110		12.030					ND	
126 N-Propylbenzene	91		12.066					ND	
127 2-Chlorotoluene	126		12.140					ND	
128 1,3,5-Trimethylbenzene	105		12.207					ND	
129 4-Chlorotoluene	126		12.231					ND	
130 tert-Butylbenzene	134		12.450					ND	
131 Pentachloroethane	167		12.481					ND	
132 1,2,4-Trimethylbenzene	105		12.493					ND	
133 sec-Butylbenzene	105		12.615					ND	
134 1,3-Dichlorobenzene	146		12.713					ND	7
135 4-Isopropyltoluene	119		12.731					ND	7
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	799518	10.0	10.0	
137 1,4-Dichlorobenzene	146		12.792					ND	7
138 1,2,3-Trimethylbenzene	120		12.804					ND	7
139 Benzyl chloride	126		12.871					ND	
140 n-Butylbenzene	92		13.030					ND	
141 1,2-Dichlorobenzene	146		13.054					ND	
142 p-Diethylbenzene	119		13.078					ND	
144 Hexachloroethane	117		13.444					ND	
145 1,2-Dibromo-3-Chloropropane	155		13.609					ND	
146 1,3,5-Trichlorobenzene	180		13.731					ND	7
147 1,2,4-Trichlorobenzene	180		14.164					ND	
148 Hexachlorobutadiene	225		14.249					ND	
149 Naphthalene	128		14.340					ND	7
150 1,2,3-Trichlorobenzene	180		14.487					ND	7
151 2-Methylnaphthalene	142	15.102	15.090	0.012	90	1337		0.0197	
152 Dodecane	57		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
168 Propargyl alcohol TIC	1		0.000					ND	
167 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
166 Vinyl acetate (TIC)	1		0.000					ND	
165 tert-Butyl Formate	1		0.000					ND	
164 2-Bromo-1-chloropropane	1		0.000					ND	
163 1-Chloropropane	1		0.000					ND	
162 1,1-Dichloroacetone	1		0.000					ND	
169 Pentachloroethane TIC	1		0.000					ND	
161 Methylal	1		0.000					ND	
159 Isopropyl alcohol TIC	1		0.000					ND	
158 Propene oxide	1		0.000					ND	
157 t-Amyl alcohol	1		0.000					ND	
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
155 Ethanol	45		0.000					ND	
154 Acetonitrile TIC	1		0.000					ND	
153 n-Decane	57		0.000					ND	
160 1-Bromo-3-Chloropropane	1		0.000					ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

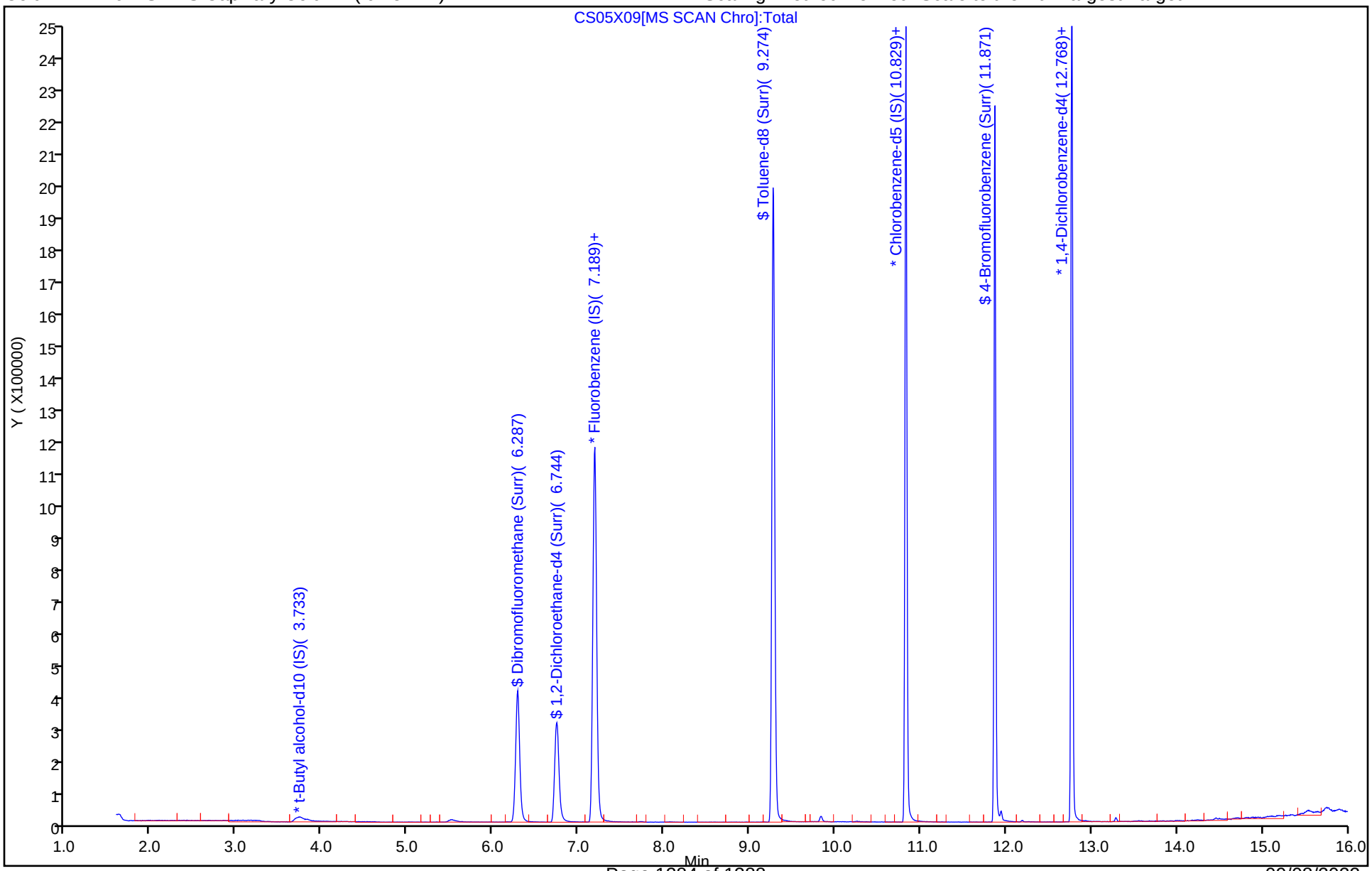
Report Date: 06-Sep-2022 12:50:05 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X09.D

Injection Date:	05-Sep-2022 13:27:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	10
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X09.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	05-Sep-2022 13:27:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065639-010				
Misc. Info.:	MB				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Sep-2022 12:40:58	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1644				
First Level Reviewer: DVW2		Date:	05-Sep-2022 13:58:47		

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.2	101.61
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.18
$ 82 Toluene-d8 (Surr)	10.0	9.85	98.54
$ 121 4-Bromofluorobenzene (Surr)	10.0	9.69	96.94

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

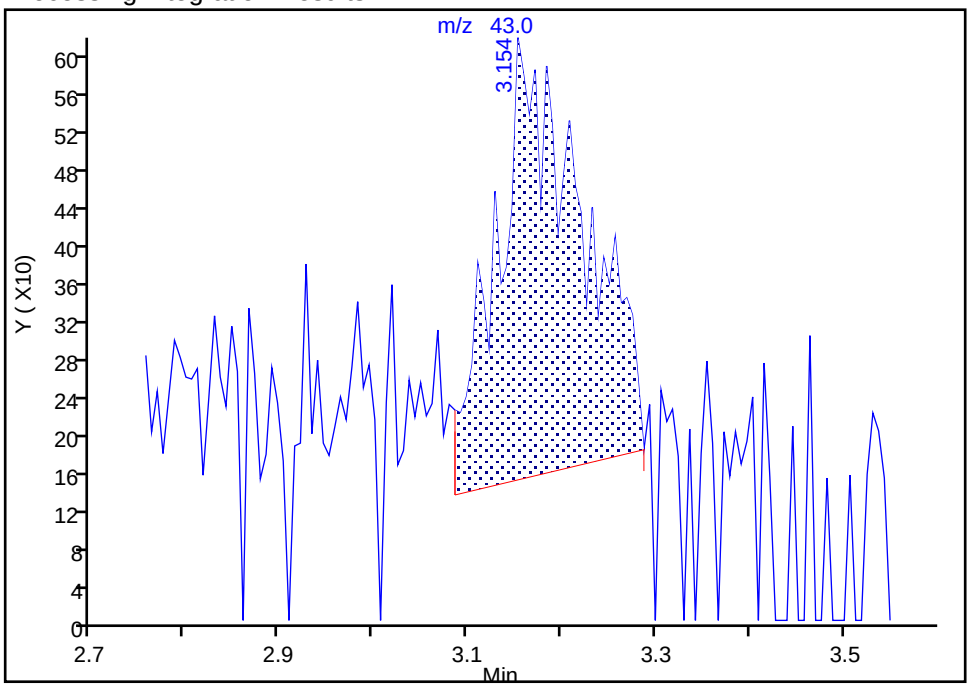
Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X09.D				
Injection Date:	05-Sep-2022 13:27:30	Instrument ID:	10193		
Lims ID:	MB				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

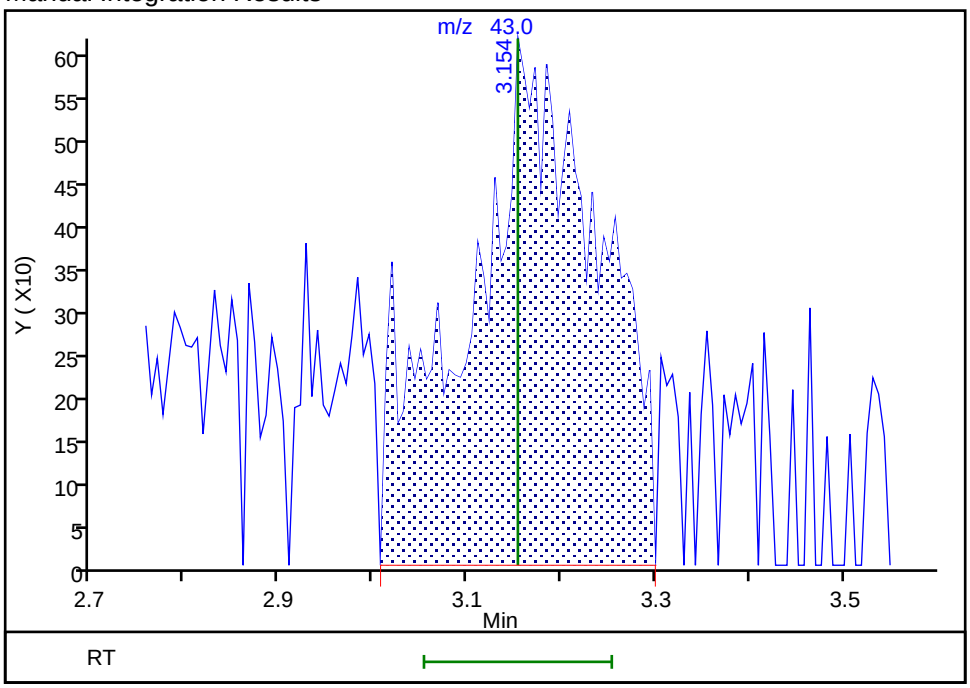
Processing Integration Results

RT: 3.15
Area: 2945
Amount: 0.450207
Amount Units: ug/l



Manual Integration Results

RT: 3.15
Area: 6018
Amount: 0.919981
Amount Units: ug/l



Reviewer: DVW2, 05-Sep-2022 13:57:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-292755/7

Matrix: Water Lab File ID: GS05X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 12:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292755 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-292755/7

Matrix: Water Lab File ID: GS05X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 12:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292755 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Sep-2022 12:05:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065640-007
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Sep-2022 12:33:45 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: DVW2 Date: 05-Sep-2022 12:33:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.867					ND	
2 Dichlorodifluoromethane	85		1.898					ND	
3 Chlorodifluoromethane	51		1.916					ND	
4 Dimethyl ether	45		1.983					ND	
5 Chloromethane	50		2.093					ND	
6 Vinyl chloride	62		2.203					ND	
7 Butadiene	39		2.215					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.294					ND	
9 Bromomethane	94		2.526					ND	
10 Chloroethane	64		2.605					ND	
11 Dichlorofluoromethane	67		2.837					ND	
12 Trichlorofluoromethane	101		2.904					ND	
13 Ethyl ether	59		3.129					ND	
14 Ethanol	45		3.190					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.221					ND	
17 Acrolein	56		3.300					ND	7
18 1,1-Dichloroethene	96		3.422					ND	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.464					ND	
20 Acetone	43		3.471					ND	7
21 Iodomethane	142		3.611					ND	
22 Ethyl bromide	108		3.641					ND	
24 Isopropyl alcohol	45		3.696					ND	
23 Carbon disulfide	76		3.708					ND	
25 Methyl acetate	43		3.861					ND	
26 Acetonitrile	41		3.873					ND	
27 3-Chloro-1-propene	41		3.885					ND	
29 Methylene Chloride	84		4.062					ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.111	4.123	-0.012	58	146819	50.0	50.0	
31 2-Methyl-2-propanol	59		4.233					ND	
32 Acrylonitrile	53		4.403					ND	
33 Methyl tert-butyl ether	73		4.452					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	34 trans-1,2-Dichloroethene	96		4.464					ND	
	35 Hexane	57		4.891					ND	
	36 Vinyl acetate	43		5.123					ND	
	37 1,1-Dichloroethane	63		5.129					ND	
	38 Isopropyl ether	45		5.190					ND	
	39 2-Chloro-1,3-butadiene	53		5.239					ND	
	40 Tert-butyl ethyl ether	59		5.726					ND	7
	41 2-Butanone (MEK)	43		5.940					ND	
	42 cis-1,2-Dichloroethene	96		5.964					ND	
	43 2,2-Dichloropropane	77		5.976					ND	7
	44 Ethyl acetate	43		6.007					ND	7
	45 Propionitrile	54		6.031					ND	
	46 Methyl acrylate	55		6.141					ND	
S	47 1,2-Dichloroethene, Total	100		6.155					ND	7
	48 Methacrylonitrile	67		6.238					ND	
	49 Chlorobromomethane	128		6.299					ND	
	50 Tetrahydrofuran	71		6.305					ND	
	51 Chloroform	83		6.452					ND	
$	52 Dibromofluoromethane (Surr)	113	6.659	6.665	-0.006	94	543338	10.0	10.1	
	53 1,1,1-Trichloroethane	97		6.677					ND	
	54 Cyclohexane	56		6.775					ND	
	56 Carbon tetrachloride	117		6.885					ND	
	57 1,1-Dichloropropene	75		6.891					ND	
	55 1-Chlorobutane	56		6.940					ND	
	58 Isobutyl alcohol	41		7.080					ND	
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.116	7.116	0.000	45	117394	10.0	10.3	
	60 Benzene	78		7.153					ND	
	61 1,2-Dichloroethane	62		7.220					ND	
	62 Isopropyl acetate	43		7.244					ND	
	63 Tert-amyl methyl ether	73		7.348					ND	
*	64 Fluorobenzene (IS)	96	7.555	7.561	-0.006	99	2163456	10.0	10.0	
	65 n-Heptane	43		7.573					ND	
	66 t-Amyl alcohol	73		7.842					ND	
	67 n-Butanol	56		7.976					ND	
	68 Trichloroethene	95		8.043					ND	
	69 Methylcyclohexane	83		8.348					ND	
	70 1,2-Dichloropropane	63		8.372					ND	
	71 2-ethoxy-2-methyl butane	87		8.390					ND	
	72 Methyl methacrylate	69		8.463					ND	
	73 Dibromomethane	93		8.482					ND	
	74 1,4-Dioxane	88		8.512					ND	
	75 n-Propyl acetate	61		8.549					ND	
	76 Dichlorobromomethane	83		8.720					ND	
	77 2-Nitropropane	41		9.000					ND	
	78 2-Chloroethyl vinyl ether	63		9.098					ND	
	79 1-Bromo-2-chloroethane	63		9.116					ND	
	80 Chloroacetonitrile	75		9.189					ND	
	81 cis-1,3-Dichloropropene	75		9.280					ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.463					ND	7
$	83 Toluene-d8 (Surr)	98	9.591	9.597	-0.006	93	2207640	10.0	9.89	
	84 Toluene	92		9.671					ND	
	85 trans-1,3-Dichloropropene	75		9.939					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Ethyl methacrylate	69		10.006					ND	
S 105 1,3-Dichloropropene, Total	100		10.060					ND	7
106 1,1,2-Trichloroethane	97		10.146					ND	
107 Tetrachloroethene	166		10.231					ND	
108 1,3-Dichloropropane	76		10.311					ND	
109 2-Hexanone	43		10.366					ND	
110 n-Butyl acetate	43		10.487					ND	U
111 Chlorodibromomethane	129		10.524					ND	
112 Ethylene Dibromide	107		10.634					ND	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1743854	10.0	10.0	
114 1-Chlorohexane	91		11.085					ND	7
115 Chlorobenzene	112		11.097					ND	
117 1,1,1,2-Tetrachloroethane	131		11.182					ND	
116 Ethylbenzene	91		11.189					ND	
S 118 Xylenes, Total	106		11.245					ND	7
119 m-Xylene & p-Xylene	106		11.304					ND	
120 o-Xylene	106		11.634					ND	
121 Styrene	104		11.652					ND	
122 Bromoform	173		11.804					ND	
123 Isopropylbenzene	105		11.938					ND	
124 cis-1,4-Dichloro-2-butene	88		11.987					ND	
125 Cyclohexanone	55		12.018					ND	7
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	95	818629	10.0	9.85	
127 1,1,2,2-Tetrachloroethane	83		12.182					ND	
128 Bromobenzene	156		12.194					ND	
129 trans-1,4-Dichloro-2-butene	53		12.213					ND	
130 1,2,3-Trichloropropane	110		12.231					ND	
131 N-Propylbenzene	91		12.268					ND	
132 2-Chlorotoluene	126		12.341					ND	
133 1,3,5-Trimethylbenzene	105		12.402					ND	
134 4-Chlorotoluene	126		12.432					ND	
135 tert-Butylbenzene	134		12.646					ND	
136 Pentachloroethane	167		12.676					ND	
137 1,2,4-Trimethylbenzene	105		12.688					ND	
138 sec-Butylbenzene	105		12.810					ND	
139 1,3-Dichlorobenzene	146		12.908					ND	7
140 4-Isopropyltoluene	119		12.914					ND	7
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	-0.001	94	1035353	10.0	10.0	
142 1,4-Dichlorobenzene	146		12.981					ND	7
143 1,2,3-Trimethylbenzene	120		12.993					ND	7
144 Benzyl chloride	126		13.060					ND	
145 p-Diethylbenzene	119		13.115					ND	
146 n-Butylbenzene	92		13.206					ND	
147 1,2-Dichlorobenzene	146		13.243					ND	
148 Hexachloroethane	201		13.499					ND	
149 1,2-Dibromo-3-Chloropropane	155		13.786					ND	
150 1,3,5-Trichlorobenzene	180		13.908					ND	7
151 1,2,4-Trichlorobenzene	180		14.328					ND	
152 Hexachlorobutadiene	225		14.414					ND	
153 Naphthalene	128		14.511					ND	7
154 1,2,3-Trichlorobenzene	180		14.651					ND	
155 2-Methylnaphthalene	142	15.273	15.261	0.012	86	4262		0.0594	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
157 1,1-Dichloroacetone	1		0.000					ND	
158 tert-Butyl Formate	1		0.000					ND	
159 Methylal	1		0.000					ND	
160 n-Decane	57		0.000					ND	
161 Propene oxide	1		0.000					ND	
162 1-Bromo-3-Chloropropane	1		0.000					ND	
163 1-Chloropropane	1		0.000					ND	
164 2-Bromo-1-chloropropane	1		0.000					ND	
165 Dodecane	57		0.000					ND	
166 Pentane	43	2.916	2.928	-0.012	1	369			NR

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MSV_29_826ISS_00036 Amount Added: 1.00 Units: uL Run Reagent

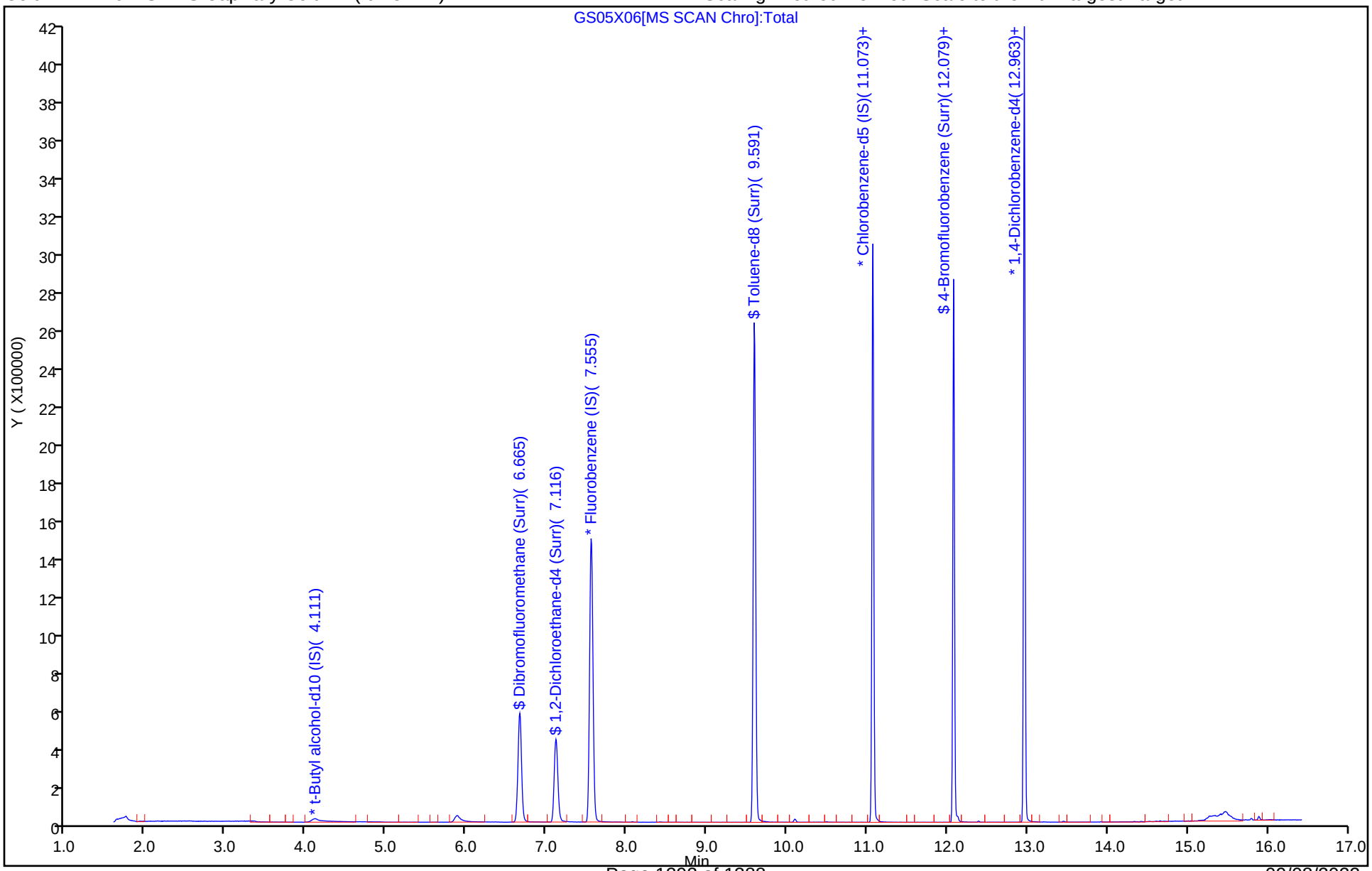
Report Date: 05-Sep-2022 12:34:00 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X06.D

Injection Date:	05-Sep-2022 12:05:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X06.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	05-Sep-2022 12:05:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065640-007				
Misc. Info.:	MB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	05-Sep-2022 12:33:45	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1663				

First Level Reviewer: DVW2 Date: 05-Sep-2022 12:33:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	101.16
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.91
$ 83 Toluene-d8 (Surr)	10.0	9.89	98.85
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.85	98.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-95715-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-291418/4

Matrix: Water
Lab File ID: IG31X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 08/31/2022 10:25

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 291418
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.26		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.40		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.21		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.33		0.50	0.080
75-34-3	1,1-Dichloroethane	5.60		0.50	0.10
75-35-4	1,1-Dichloroethene	4.34		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.34		0.50	0.080
107-06-2	1,2-Dichloroethane	5.53		0.50	0.070
78-87-5	1,2-Dichloropropane	5.71		0.50	0.10
78-93-3	2-Butanone (MEK)	62.7		5.0	1.0
591-78-6	2-Hexanone	63.5		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	67.8		5.0	1.0
67-64-1	Acetone	55.7		5.0	1.0
71-43-2	Benzene	5.62		0.50	0.10
74-97-5	Bromochloromethane	5.62		0.50	0.080
75-27-4	Bromodichloromethane	5.67		0.50	0.080
75-25-2	Bromoform	5.12		1.0	0.30
74-83-9	Bromomethane	5.63		0.50	0.10
75-15-0	Carbon disulfide	5.09		1.0	0.10
56-23-5	Carbon tetrachloride	4.72		0.50	0.10
108-90-7	Chlorobenzene	5.12		0.50	0.070
75-00-3	Chloroethane	5.85		0.50	0.10
67-66-3	Chloroform	5.58		0.50	0.090
74-87-3	Chloromethane	5.54		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.67		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.38		0.50	0.10
124-48-1	Dibromochloromethane	5.25		0.50	0.080
100-41-4	Ethylbenzene	5.25		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.60		0.50	0.080
75-09-2	Methylene Chloride	5.44		0.50	0.10
100-42-5	Styrene	5.42		0.50	0.070
127-18-4	Tetrachloroethene	4.87		0.50	0.20
108-88-3	Toluene	5.13		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-291418/4

Matrix: Water Lab File ID: IG31X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 10:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.11		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.47		0.50	0.080
79-01-6	Trichloroethene	5.36		0.50	0.080
75-01-4	Vinyl chloride	5.49		0.50	0.10
1330-20-7	Xylenes, Total	15.8		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Aug-2022 10:25:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 09:18:08 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: DVW2 Date: 31-Aug-2022 11:10:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.946	1.940	0.006	99	330162	5.00	5.53	
4 Chloromethane	50	2.148	2.136	0.012	99	375650	5.00	5.54	
5 Vinyl chloride	62	2.257	2.245	0.012	98	366537	5.00	5.49	
6 Butadiene	39	2.276	2.264	0.012	84	331947	5.00	4.40	
7 Bromomethane	94	2.605	2.593	0.012	91	262024	5.00	5.63	
8 Chloroethane	64	2.702	2.696	0.006	100	229540	5.00	5.85	M
9 Dichlorofluoromethane	67	2.922	2.904	0.018	97	534536	5.00	5.88	
10 Trichlorofluoromethane	101	2.952	2.946	0.006	98	443789	5.00	5.04	
11 Ethyl ether	59	3.257	3.239	0.018	91	226229	4.98	5.32	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.324	3.306	0.018	92	321104	5.00	4.81	
14 Acrolein	56	3.434	3.416	0.018	98	219520	37.5	27.5	
15 1,1-Dichloroethene	96	3.574	3.556	0.018	98	213212	5.00	4.34	
16 Acetone	43	3.580	3.574	0.006	99	525979	62.5	55.7	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.599	3.611	-0.012	54	148485	5.00	2.99	Ma
18 Iodomethane	142	3.757	3.757	0.000	99	500264	5.00	5.79	
19 Ethyl bromide	108	3.788	3.788	0.000	99	168082	4.89	3.79	
20 Carbon disulfide	76	3.873	3.861	0.012	99	624889	5.00	5.09	
23 Methyl acetate	43	4.013	4.001	0.012	97	155788	5.00	5.61	M
24 3-Chloro-1-propene	41	4.044	4.032	0.012	91	401418	5.00	5.59	
25 Methylene Chloride	84	4.239	4.221	0.018	92	292538	5.00	5.44	
* 26 t-Butyl alcohol-d10 (IS)	65	4.226	4.251	-0.025	98	171074	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.348	4.355	-0.007	98	105884	50.0	36.0	M
28 Acrylonitrile	53	4.568	4.556	0.012	98	329276	25.0	24.9	
29 Methyl tert-butyl ether	73	4.647	4.635	0.012	97	690137	5.00	5.60	
30 trans-1,2-Dichloroethene	96	4.653	4.647	0.006	99	278099	5.00	5.11	
31 Hexane	57	5.068	5.062	0.006	93	427863	5.00	5.62	
32 1,1-Dichloroethane	63	5.299	5.293	0.006	96	559403	5.00	5.60	
35 Isopropyl ether	45	5.366	5.361	0.005	94	889049	5.00	5.79	
36 2-Chloro-1,3-butadiene	53	5.409	5.403	0.006	91	450785	5.00	6.17	
37 Tert-butyl ethyl ether	59	5.903	5.891	0.012	97	797357	5.00	5.60	
38 2-Butanone (MEK)	43	6.092	6.086	0.006	100	1098521	62.5	62.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	6.129	6.123	0.006	81	345901	5.00	5.67	
40 2,2-Dichloropropane	77	6.141	6.135	0.006	87	360538	5.00	4.45	
43 Propionitrile	54	6.177	6.171	0.006	98	208230	37.5	41.0	
45 Methacrylonitrile	67	6.397	6.385	0.012	91	636727	37.5	34.8	
46 Chlorobromomethane	128	6.458	6.452	0.006	94	155405	5.00	5.62	
47 Tetrahydrofuran	71	6.470	6.458	0.012	75	133168	25.0	26.3	
48 Chloroform	83	6.610	6.604	0.006	93	559029	5.00	5.58	
$ 49 Dibromofluoromethane (Surr)	113	6.817	6.811	0.006	93	500477	10.0	10.3	
50 1,1,1-Trichloroethane	97	6.842	6.824	0.018	98	394616	5.00	4.40	
51 Cyclohexane	56	6.933	6.927	0.006	91	337855	5.00	3.76	
53 1,1-Dichloropropene	75	7.043	7.037	0.006	97	444114	5.00	5.70	
54 Carbon tetrachloride	117	7.043	7.043	0.000	95	378245	5.00	4.72	
55 Isobutyl alcohol	41	7.195	7.177	0.018	93	157488	125.0	136.6	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	89	97393	10.0	9.75	
57 Benzene	78	7.305	7.299	0.006	97	1318226	5.00	5.62	
58 1,2-Dichloroethane	62	7.378	7.372	0.006	97	346099	5.00	5.53	
60 Tert-amyl methyl ether	73	7.500	7.494	0.006	98	756844	5.00	5.60	
* 61 Fluorobenzene (IS)	96	7.708	7.702	0.006	99	1936967	10.0	10.0	
62 n-Heptane	43	7.720	7.714	0.006	91	470598	5.00	5.61	
63 n-Butanol	56	8.073	8.061	0.012	92	244903	250.0	231.3	
64 Trichloroethene	95	8.183	8.183	0.000	98	334648	5.00	5.36	
65 Methylcyclohexane	83	8.494	8.494	0.000	91	469642	5.00	4.56	
66 1,2-Dichloropropane	63	8.512	8.506	0.006	87	345545	5.00	5.71	
67 Methyl methacrylate	69	8.598	8.592	0.006	90	144812	5.00	4.40	
68 1,4-Dioxane	88	8.598	8.598	0.000	30	34807	125.0	148.2	M
69 Dibromomethane	93	8.628	8.616	0.012	97	168300	5.00	5.80	
71 Dichlorobromomethane	83	8.854	8.854	0.000	99	407531	5.00	5.67	
72 2-Nitropropane	41	9.122	9.116	0.006	99	45478	5.00	4.68	
75 1-Bromo-2-chloroethane	63	9.250	9.244	0.006	99	329329	5.00	5.33	
76 cis-1,3-Dichloropropene	75	9.402	9.396	0.006	96	463426	5.00	5.38	
77 4-Methyl-2-pentanone (MIBK)	43	9.567	9.561	0.006	96	2872666	62.5	67.8	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2058272	10.0	9.94	
79 Toluene	92	9.786	9.780	0.006	98	838443	5.00	5.13	
97 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	91	408394	5.00	5.47	
99 Ethyl methacrylate	69	10.097	10.097	0.000	89	307333	5.00	5.45	
100 1,1,2-Trichloroethane	97	10.244	10.238	0.006	90	245990	5.00	5.33	
101 Tetrachloroethene	166	10.335	10.329	0.006	98	379966	5.00	4.87	
102 1,3-Dichloropropane	76	10.402	10.402	0.000	88	411280	5.00	5.33	
103 2-Hexanone	43	10.451	10.445	0.006	97	1945746	62.5	63.5	
105 Chlorodibromomethane	129	10.615	10.616	-0.001	90	297398	5.00	5.25	
106 Ethylene Dibromide	107	10.731	10.725	0.006	98	228079	5.00	5.34	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	86	1595220	10.0	10.0	
108 1-Chlorohexane	91	11.164	11.164	0.000	98	459590	5.00	5.02	
109 Chlorobenzene	112	11.182	11.183	-0.001	95	939649	5.00	5.12	
111 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	96	329833	5.00	5.26	
112 Ethylbenzene	91	11.268	11.268	0.000	98	1598328	5.00	5.25	
113 m-Xylene & p-Xylene	106	11.384	11.384	0.000	100	1250505	10.0	10.6	
114 o-Xylene	106	11.713	11.713	0.000	96	585786	5.00	5.19	
115 Styrene	104	11.725	11.725	0.000	94	968939	5.00	5.42	
116 Bromoform	173	11.884	11.884	0.000	96	173322	5.00	5.12	
117 Isopropylbenzene	105	12.012	12.012	0.000	96	1560529	5.00	5.32	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	92	777311	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	94	309654	5.00	5.21	
122 Bromobenzene	156	12.274	12.274	0.000	97	376311	5.00	4.91	
123 trans-1,4-Dichloro-2-butene	53	12.280	12.274	0.006	90	306998	25.0	20.5	
124 1,2,3-Trichloropropane	110	12.298	12.298	0.000	81	81621	5.00	5.20	
125 N-Propylbenzene	91	12.341	12.335	0.006	99	1928786	5.00	5.26	
126 2-Chlorotoluene	126	12.414	12.414	0.000	97	383172	5.00	5.06	
127 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	1306453	5.00	5.09	
128 4-Chlorotoluene	126	12.505	12.505	0.000	98	385425	5.00	4.99	
129 tert-Butylbenzene	134	12.713	12.713	0.000	93	275433	5.00	4.79	
131 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	98	1328094	5.00	5.21	
132 sec-Butylbenzene	105	12.877	12.877	0.000	94	1719442	5.00	5.18	
133 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	726806	5.00	4.91	
134 4-Isopropyltoluene	119	12.987	12.987	0.000	97	1450433	5.00	5.19	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	95	922905	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.054	13.054	0.000	94	748241	5.00	4.90	
137 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	596785	5.00	5.08	
138 Benzyl chloride	126	13.127	13.127	0.000	98	117230	5.00	5.26	
139 n-Butylbenzene	92	13.273	13.274	-0.001	97	714201	5.00	5.36	
140 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	676808	5.00	4.92	
142 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	85	39065	5.00	4.61	
143 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	503168	5.00	4.99	
144 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	93	386303	5.00	4.75	
145 Hexachlorobutadiene	225	14.481	14.481	0.000	98	165216	5.00	4.30	
146 Naphthalene	128	14.584	14.584	0.000	97	710337	5.00	4.73	
147 1,2,3-Trichlorobenzene	180	14.724	14.725	-0.001	96	340183	5.00	4.72	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00070	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00073	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00097	Amount Added:	12.50	Units: uL	
LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

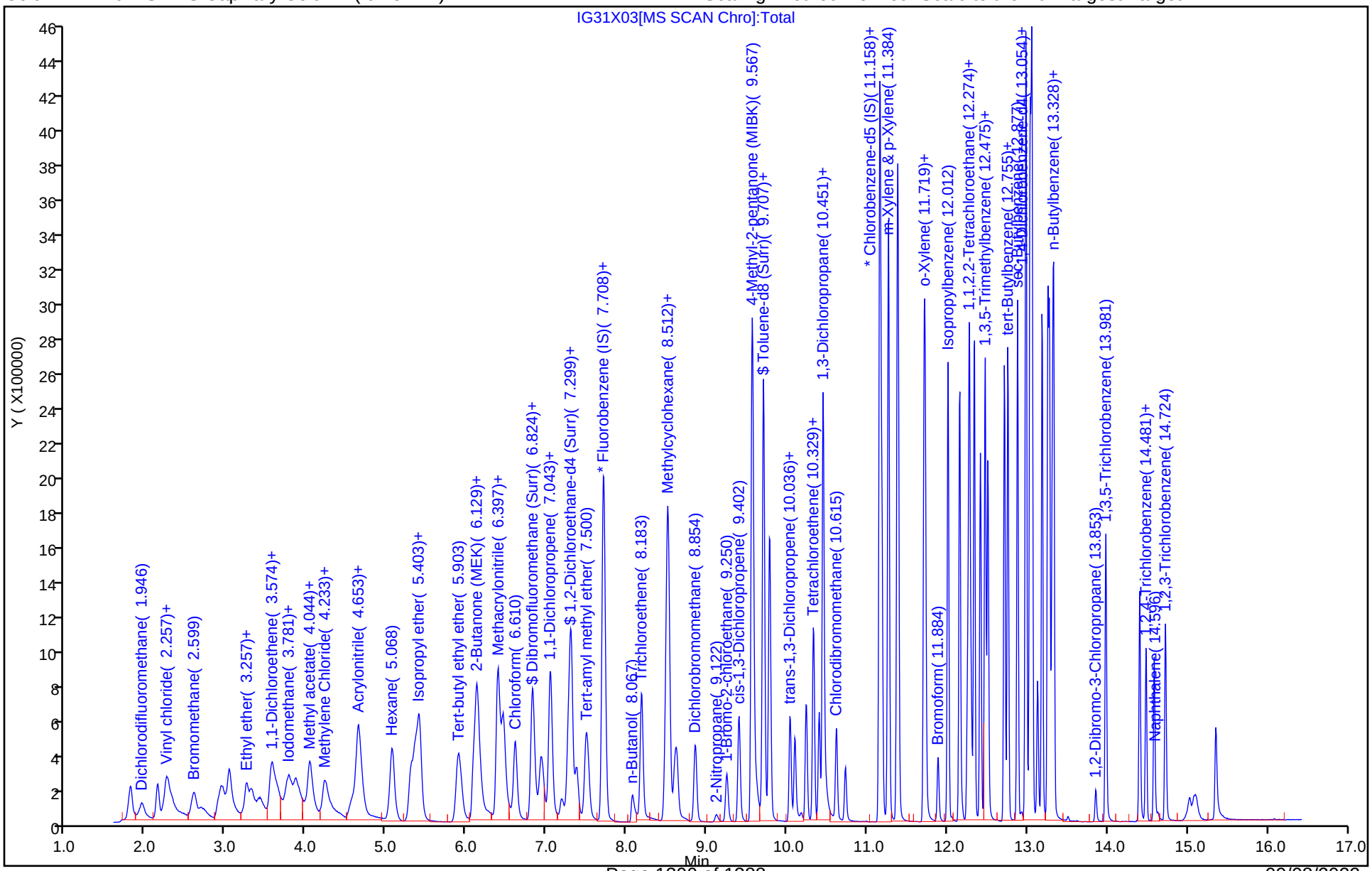
Report Date: 01-Sep-2022 09:19:14 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X03.D

Injection Date:	31-Aug-2022 10:25:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	31-Aug-2022 10:25:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-004				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 09:18:08	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

First Level Reviewer: DVW2 Date: 31-Aug-2022 11:10:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	10.3	102.92
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	9.75	97.51
$ 78 Toluene-d8 (Surr)	10.0	9.94	99.43
$ 120 4-Bromofluorobenzene (Surr)	10.0	10.2	102.40

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

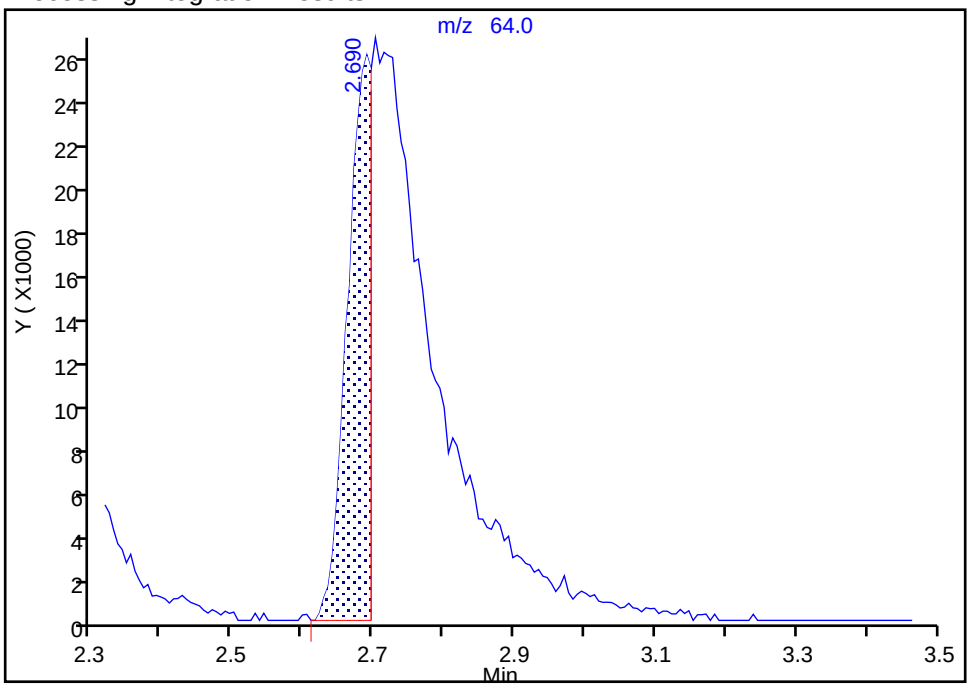
Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X03.D
Injection Date: 31-Aug-2022 10:25:30 Instrument ID: 19930
Lims ID: LCS
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

8 Chloroethane, CAS: 75-00-3

Signal: 1

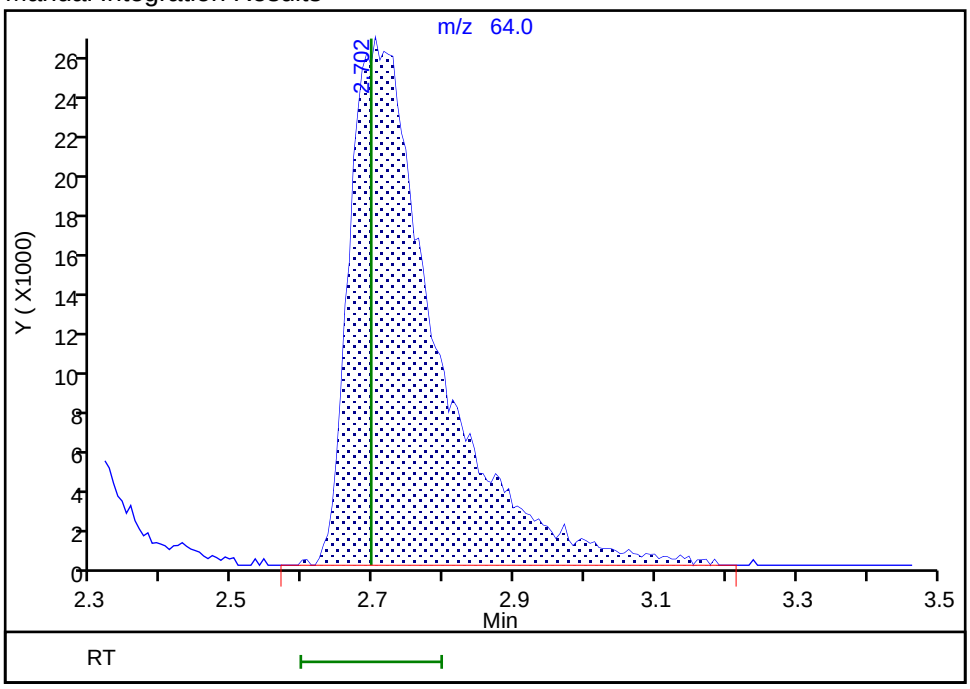
Processing Integration Results

RT: 2.69
Area: 62182
Amount: 1.585153
Amount Units: ug/l



Manual Integration Results

RT: 2.70
Area: 229540
Amount: 5.851467
Amount Units: ug/l



Reviewer: DVW2, 31-Aug-2022 10:51:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

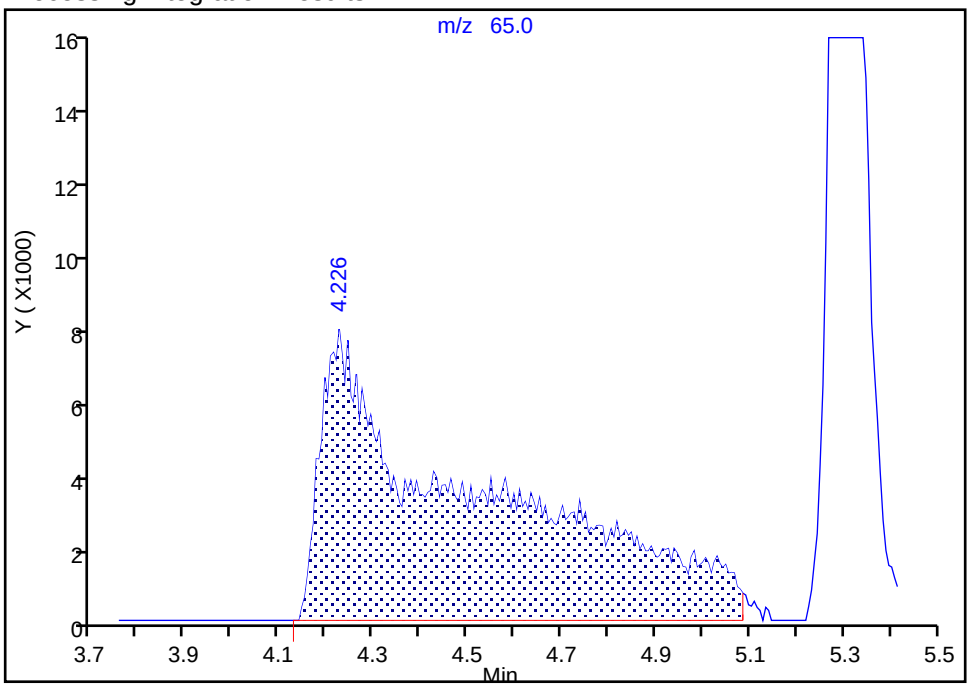
Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X03.D
Injection Date: 31-Aug-2022 10:25:30 Instrument ID: 19930
Lims ID: LCS
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

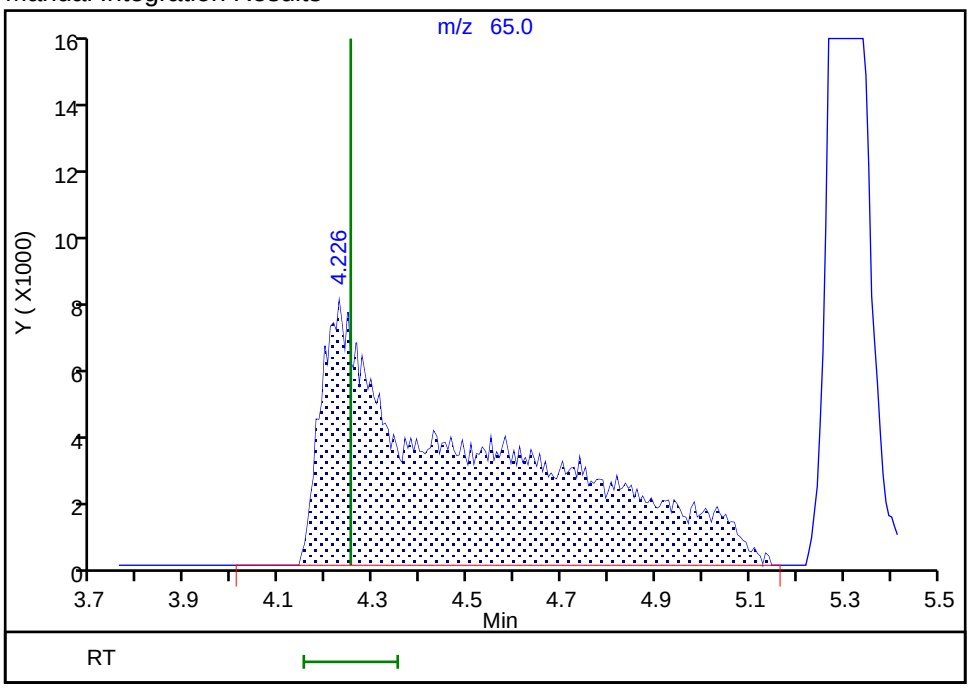
Processing Integration Results

RT: 4.23
Area: 169931
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.23
Area: 171074
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 31-Aug-2022 10:52:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-291906/5

Matrix: Water Lab File ID: IS01X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.15		0.50	0.070
71-55-6	1,1,1-Trichloroethane	3.78		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.39		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.70		0.50	0.080
75-34-3	1,1-Dichloroethane	4.84		0.50	0.10
75-35-4	1,1-Dichloroethene	3.69		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.75		0.50	0.080
107-06-2	1,2-Dichloroethane	5.14		0.50	0.070
78-87-5	1,2-Dichloropropane	5.13		0.50	0.10
78-93-3	2-Butanone (MEK)	62.5		5.0	1.0
591-78-6	2-Hexanone	63.9		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	65.9		5.0	1.0
67-64-1	Acetone	55.5		5.0	1.0
71-43-2	Benzene	5.07		0.50	0.10
74-97-5	Bromochloromethane	5.06		0.50	0.080
75-27-4	Bromodichloromethane	5.21		0.50	0.080
75-25-2	Bromoform	5.47		1.0	0.30
74-83-9	Bromomethane	5.22		0.50	0.10
75-15-0	Carbon disulfide	4.28		1.0	0.10
56-23-5	Carbon tetrachloride	4.01		0.50	0.10
108-90-7	Chlorobenzene	5.10		0.50	0.070
75-00-3	Chloroethane	4.84		0.50	0.10
67-66-3	Chloroform	5.00		0.50	0.090
74-87-3	Chloromethane	4.93		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.08		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.90		0.50	0.10
124-48-1	Dibromochloromethane	5.73		0.50	0.080
100-41-4	Ethylbenzene	5.21		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.45		0.50	0.080
75-09-2	Methylene Chloride	4.68		0.50	0.10
100-42-5	Styrene	5.58		0.50	0.070
127-18-4	Tetrachloroethene	5.19		0.50	0.20
108-88-3	Toluene	5.40		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-291906/5

Matrix: Water Lab File ID: IS01X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/01/2022 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291906 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.47		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.60		0.50	0.080
79-01-6	Trichloroethene	4.85		0.50	0.080
75-01-4	Vinyl chloride	4.90		0.50	0.10
1330-20-7	Xylenes, Total	15.9		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	110		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Sep-2022 12:33:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065465-005
Misc. Info.: LCSD
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:57:21 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: DVW2 Date: 01-Sep-2022 13:00:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.928	1.947	-0.019	99	370857	5.00	4.22	
4 Chloromethane	50	2.135	2.148	-0.013	99	491826	5.00	4.93	
5 Vinyl chloride	62	2.227	2.251	-0.024	98	481492	5.00	4.90	
6 Butadiene	39	2.263	2.264	-0.001	89	469076	5.00	4.22	M
7 Bromomethane	94	2.580	2.599	-0.019	91	357396	5.00	5.22	
8 Chloroethane	64	2.672	2.690	-0.018	100	279300	5.00	4.84	
9 Dichlorofluoromethane	67	2.904	2.910	-0.006	97	635094	5.00	4.75	
10 Trichlorofluoromethane	101	2.940	2.952	-0.012	99	547510	5.00	4.22	
11 Ethyl ether	59	3.239	3.251	-0.012	91	290538	4.98	4.64	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.312	3.324	-0.012	92	435946	5.00	4.44	
14 Acrolein	56	3.422	3.428	-0.006	99	339748	37.5	30.1	
15 1,1-Dichloroethene	96	3.556	3.568	-0.012	98	266881	5.00	3.69	
16 Acetone	43	3.599	3.586	0.012	100	739755	62.5	55.5	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.574	3.611	-0.037	56	134476	5.00	1.84	
18 Iodomethane	142	3.757	3.769	-0.012	98	652705	5.00	5.13	
19 Ethyl bromide	108	3.787	3.794	-0.007	98	220610	4.89	3.38	
20 Carbon disulfide	76	3.861	3.879	-0.018	99	773215	5.00	4.28	
23 Methyl acetate	43	4.007	4.013	-0.006	97	206574	5.00	5.27	M
24 3-Chloro-1-propene	41	4.031	4.044	-0.013	93	496844	5.00	4.70	
25 Methylene Chloride	84	4.233	4.239	-0.006	91	370795	5.00	4.68	
* 26 t-Butyl alcohol-d10 (IS)	65	4.245	4.245	0.000	99	241686	50.0	50.0	
27 2-Methyl-2-propanol	59	4.373	4.367	0.006	100	174254	50.0	41.9	
28 Acrylonitrile	53	4.568	4.580	-0.012	98	458008	25.0	24.5	
29 Methyl tert-butyl ether	73	4.635	4.641	-0.006	96	807438	5.00	4.45	
30 trans-1,2-Dichloroethene	96	4.641	4.653	-0.012	98	358177	5.00	4.47	
31 Hexane	57	5.062	5.068	-0.006	92	524214	5.00	4.68	
32 1,1-Dichloroethane	63	5.293	5.306	-0.013	96	711739	5.00	4.84	
35 Isopropyl ether	45	5.354	5.367	-0.013	93	1116359	5.00	4.94	
36 2-Chloro-1,3-butadiene	53	5.403	5.409	-0.006	90	575218	5.00	5.35	
37 Tert-butyl ethyl ether	59	5.897	5.903	-0.006	96	966863	5.00	4.61	
38 2-Butanone (MEK)	43	6.092	6.092	0.000	100	1548370	62.5	62.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	6.122	6.129	-0.007	81	455949	5.00	5.08	
40 2,2-Dichloropropane	77	6.141	6.141	0.000	85	426603	5.00	3.58	
43 Propionitrile	54	6.183	6.177	0.006	98	262491	37.5	36.6	
45 Methacrylonitrile	67	6.391	6.397	-0.006	91	907937	37.5	35.1	
46 Chlorobromomethane	128	6.452	6.458	-0.006	94	205955	5.00	5.06	
47 Tetrahydrofuran	71	6.464	6.470	-0.006	80	183693	25.0	25.7	
48 Chloroform	83	6.604	6.610	-0.006	93	736584	5.00	5.00	
$ 49 Dibromofluoromethane (Surr)	113	6.817	6.818	-0.001	94	711211	10.0	9.93	
50 1,1,1-Trichloroethane	97	6.830	6.830	0.000	98	498126	5.00	3.78	
51 Cyclohexane	56	6.927	6.933	-0.006	90	412380	5.00	3.12	
53 1,1-Dichloropropene	75	7.043	7.043	0.000	97	569976	5.00	4.97	
54 Carbon tetrachloride	117	7.043	7.049	-0.006	66	472709	5.00	4.01	
55 Isobutyl alcohol	41	7.189	7.189	0.000	93	220597	125.0	135.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	93	148897	10.0	10.1	
57 Benzene	78	7.299	7.305	-0.006	97	1751697	5.00	5.07	
58 1,2-Dichloroethane	62	7.366	7.372	-0.006	98	473223	5.00	5.14	
60 Tert-amyl methyl ether	73	7.494	7.494	0.000	98	955676	5.00	4.81	
* 61 Fluorobenzene (IS)	96	7.701	7.708	-0.007	99	2851535	10.0	10.0	
62 n-Heptane	43	7.714	7.720	-0.006	91	566319	5.00	4.59	
63 n-Butanol	56	8.067	8.061	0.006	90	398543	250.0	266.4	
64 Trichloroethene	95	8.183	8.183	0.000	98	445747	5.00	4.85	
65 Methylcyclohexane	83	8.494	8.494	0.000	91	558601	5.00	3.69	
66 1,2-Dichloropropane	63	8.506	8.512	-0.006	85	457358	5.00	5.13	
67 Methyl methacrylate	69	8.598	8.592	0.006	90	214953	5.00	4.62	
68 1,4-Dioxane	88	8.598	8.604	-0.006	31	54743	125.0	165.0	M
69 Dibromomethane	93	8.622	8.622	0.000	96	220515	5.00	5.16	
71 Dichlorobromomethane	83	8.854	8.854	0.000	100	551234	5.00	5.21	
72 2-Nitropropane	41	9.122	9.116	0.006	99	59995	5.00	4.37	
75 1-Bromo-2-chloroethane	63	9.244	9.250	-0.006	98	444588	5.00	4.89	
76 cis-1,3-Dichloropropene	75	9.402	9.396	0.006	97	620614	5.00	4.90	
77 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	96	3945313	62.5	65.9	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2856447	10.0	11.0	
79 Toluene	92	9.780	9.780	0.000	98	1104607	5.00	5.40	
97 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	91	522776	5.00	5.60	
99 Ethyl methacrylate	69	10.097	10.097	0.000	88	413249	5.00	5.86	
100 1,1,2-Trichloroethane	97	10.237	10.238	-0.001	90	328504	5.00	5.70	
101 Tetrachloroethene	166	10.329	10.329	0.000	97	507385	5.00	5.19	
102 1,3-Dichloropropane	76	10.402	10.402	0.000	88	555813	5.00	5.76	
103 2-Hexanone	43	10.451	10.451	0.000	96	2765706	62.5	63.9	
105 Chlorodibromomethane	129	10.615	10.616	-0.001	90	406095	5.00	5.73	
106 Ethylene Dibromide	107	10.731	10.731	0.000	99	306956	5.00	5.75	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1995011	10.0	10.0	
108 1-Chlorohexane	91	11.164	11.164	0.000	95	551574	5.00	4.81	
109 Chlorobenzene	112	11.182	11.183	-0.001	96	1169978	5.00	5.10	
111 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	97	404085	5.00	5.15	
112 Ethylbenzene	91	11.268	11.268	0.000	98	1985848	5.00	5.21	
113 m-Xylene & p-Xylene	106	11.384	11.384	0.000	100	1577250	10.0	10.6	
114 o-Xylene	106	11.713	11.713	0.000	97	749656	5.00	5.31	
115 Styrene	104	11.725	11.725	0.000	95	1247831	5.00	5.58	
116 Bromoform	173	11.883	11.884	-0.001	97	231570	5.00	5.47	
117 Isopropylbenzene	105	12.011	12.012	-0.001	95	2009482	5.00	5.48	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	92	969769	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	94	415903	5.00	5.39	
122 Bromobenzene	156	12.274	12.274	0.000	96	502989	5.00	5.06	
123 trans-1,4-Dichloro-2-butene	53	12.280	12.274	0.006	90	438148	25.0	20.7	
124 1,2,3-Trichloropropane	110	12.298	12.298	0.000	81	110073	5.00	5.40	
125 N-Propylbenzene	91	12.341	12.335	0.006	99	2420859	5.00	5.08	
126 2-Chlorotoluene	126	12.414	12.414	0.000	97	486930	5.00	4.96	
127 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	1708493	5.00	5.13	
128 4-Chlorotoluene	126	12.505	12.505	0.000	97	506438	5.00	5.05	
129 tert-Butylbenzene	134	12.713	12.713	0.000	93	363122	5.00	4.87	
130 Pentachloroethane	167	12.749	12.749	0.000	92	320353	5.00	5.30	
131 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	96	1745357	5.00	5.27	
132 sec-Butylbenzene	105	12.877	12.877	0.000	94	2251003	5.00	5.22	
133 1,3-Dichlorobenzene	146	12.981	12.981	0.000	97	976187	5.00	5.08	
134 4-Isopropyltoluene	119	12.987	12.987	0.000	97	1971875	5.00	5.43	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1198512	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.054	13.054	0.000	94	1032994	5.00	5.21	
137 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	803526	5.00	5.26	
138 Benzyl chloride	126	13.127	13.127	0.000	98	167428	5.00	5.78	
139 n-Butylbenzene	92	13.273	13.274	-0.001	97	956390	5.00	5.53	
140 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	938853	5.00	5.26	
142 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	87	57813	5.00	5.25	
143 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	680456	5.00	5.19	
144 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	531370	5.00	5.03	
145 Hexachlorobutadiene	225	14.481	14.481	0.000	96	233489	5.00	4.68	
146 Naphthalene	128	14.584	14.584	0.000	97	987040	5.00	5.07	
147 1,2,3-Trichlorobenzene	180	14.724	14.725	-0.001	95	456302	5.00	4.87	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00070	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00073	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00097	Amount Added: 12.50	Units: uL	
LCS_ETBR_00003	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00019	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

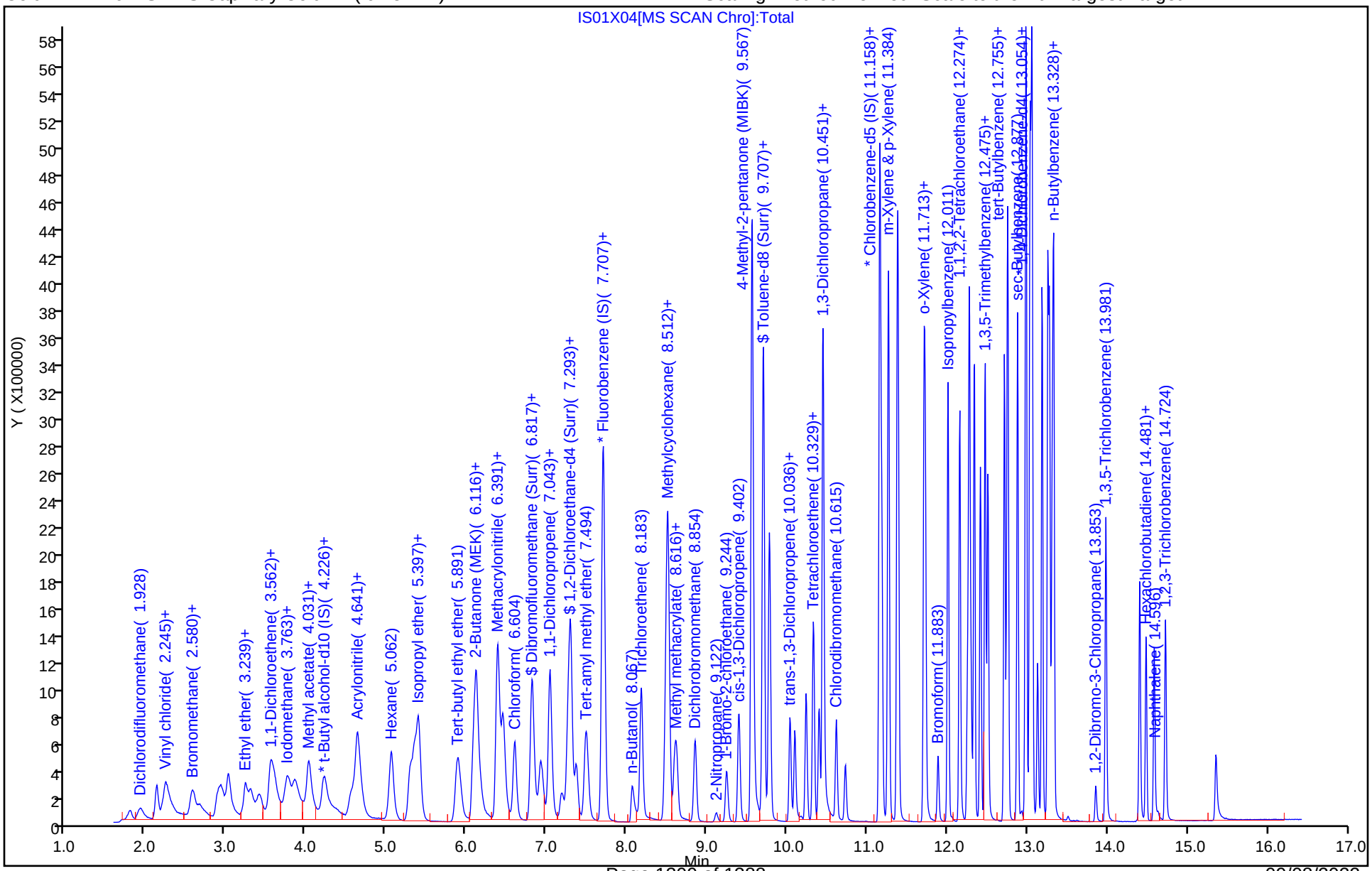
Report Date: 01-Sep-2022 13:57:36 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X04.D

Injection Date:	01-Sep-2022 12:33:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\IS01X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Sep-2022 12:33:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065465-005
Misc. Info.: LCSD
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220901-65465.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:57:21 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: DVW2 Date: 01-Sep-2022 13:00:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	9.93	99.35
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.26
$ 78 Toluene-d8 (Surr)	10.0	11.0	110.33
$ 120 4-Bromofluorobenzene (Surr)	10.0	10.2	102.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-292752/5

Matrix: Water Lab File ID: CS05X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 11:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292752 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.82		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.81		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.75		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.87		0.50	0.080
75-34-3	1,1-Dichloroethane	4.65		0.50	0.10
75-35-4	1,1-Dichloroethene	5.02		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.93		0.50	0.080
107-06-2	1,2-Dichloroethane	4.73		0.50	0.070
78-87-5	1,2-Dichloropropane	4.69		0.50	0.10
78-93-3	2-Butanone (MEK)	56.2		5.0	1.0
591-78-6	2-Hexanone	57.4		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	55.9		5.0	1.0
67-64-1	Acetone	51.8		5.0	1.0
71-43-2	Benzene	4.78		0.50	0.10
74-97-5	Bromochloromethane	5.07		0.50	0.080
75-27-4	Bromodichloromethane	4.98		0.50	0.080
75-25-2	Bromoform	5.27		1.0	0.30
74-83-9	Bromomethane	4.85		0.50	0.10
75-15-0	Carbon disulfide	5.38		1.0	0.10
56-23-5	Carbon tetrachloride	4.93		0.50	0.10
108-90-7	Chlorobenzene	4.66		0.50	0.070
75-00-3	Chloroethane	4.68		0.50	0.10
67-66-3	Chloroform	4.78		0.50	0.090
74-87-3	Chloromethane	4.56		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.97		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.94		0.50	0.10
124-48-1	Dibromochloromethane	5.07		0.50	0.080
100-41-4	Ethylbenzene	4.72		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.02		0.50	0.080
75-09-2	Methylene Chloride	4.91		0.50	0.10
100-42-5	Styrene	4.82		0.50	0.070
127-18-4	Tetrachloroethene	4.79		0.50	0.20
108-88-3	Toluene	4.69		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-292752/5

Matrix: Water Lab File ID: CS05X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 11:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292752 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.79		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.02		0.50	0.080
79-01-6	Trichloroethene	4.81		0.50	0.080
75-01-4	Vinyl chloride	4.75		0.50	0.10
1330-20-7	Xylenes, Total	14.2		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Sep-2022 11:34:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065639-005
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Sep-2022 12:39:26 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: DVW2 Date: 05-Sep-2022 12:29:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.757	1.751	0.006	99	232990	5.00	4.54	
5 Chloromethane	50	1.934	1.928	0.006	99	309359	5.00	4.56	
6 Vinyl chloride	62	2.038	2.032	0.006	98	298678	5.00	4.75	
7 Butadiene	39	2.044	2.044	0.000	92	303698	5.00	4.51	
9 Bromomethane	94	2.330	2.324	0.006	90	203239	5.00	4.85	
10 Chloroethane	64	2.391	2.391	0.000	100	171222	5.00	4.68	
11 Dichlorofluoromethane	67	2.611	2.605	0.006	97	423540	5.00	5.01	
12 Trichlorofluoromethane	101	2.666	2.666	0.000	96	337541	5.00	4.73	
13 Pentane	43	2.672	2.666	0.006	97	325629	5.00	5.14	
15 Ethyl ether	59	2.855	2.855	0.000	92	143729	4.98	3.93	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.952	2.952	0.000	95	263423	5.00	4.74	
17 Acrolein	56	3.013	3.007	0.006	99	178309	37.5	29.9	
19 1,1-Dichloroethene	96	3.123	3.123	0.000	98	198708	5.00	5.02	
20 Acetone	43	3.160	3.153	0.007	100	347411	62.5	51.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.178	3.172	0.006	90	191994	5.00	5.15	
22 Iodomethane	142	3.300	3.294	0.006	97	379840	5.00	5.21	
23 Isopropyl alcohol	45	3.318	3.312	0.006	28	43113	37.5	29.1	
24 Ethyl bromide	108	3.324	3.318	0.006	98	158325	4.89	4.25	
25 Carbon disulfide	76	3.385	3.379	0.006	99	658178	5.00	5.38	
27 Methyl acetate	43	3.525	3.519	0.006	37	97472	5.00	4.93	
28 3-Chloro-1-propene	41	3.538	3.531	0.007	94	363764	5.00	4.98	
29 Methylene Chloride	84	3.708	3.702	0.006	93	230231	5.00	4.91	
* 30 t-Butyl alcohol-d10 (IS)	65	3.739	3.745	-0.006	88	130079	50.0	50.0	
31 2-Methyl-2-propanol	59	3.848	3.836	0.012	99	115837	50.0	42.7	
32 Acrylonitrile	53	4.007	4.013	-0.006	100	241222	25.0	23.9	
33 Methyl tert-butyl ether	73	4.056	4.062	-0.006	95	603712	5.00	5.02	
34 trans-1,2-Dichloroethene	96	4.062	4.062	0.000	99	233342	5.00	4.79	
35 Hexane	57	4.464	4.464	0.000	93	326623	5.00	4.99	
36 1,1-Dichloroethane	63	4.708	4.708	0.000	96	417723	5.00	4.65	
38 Isopropyl ether	45	4.775	4.769	0.006	95	792613	5.00	4.80	
39 2-Chloro-1,3-butadiene	53	4.824	4.818	0.006	90	340294	5.00	4.85	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.324	5.324	0.000	97	757812	5.00	4.97	
41 2-Butanone (MEK)	43	5.537	5.537	0.000	99	767811	62.5	56.2	
42 cis-1,2-Dichloroethene	96	5.568	5.562	0.006	81	265235	5.00	4.97	
43 2,2-Dichloropropane	77	5.574	5.568	0.006	84	350240	5.00	4.94	
45 Propionitrile	54	5.635	5.641	-0.006	97	118924	37.5	35.0	
46 Methacrylonitrile	67	5.854	5.854	0.000	92	484156	37.5	33.5	
47 Chlorobromomethane	128	5.903	5.903	0.000	95	119908	5.00	5.07	
48 Tetrahydrofuran	71	5.915	5.909	0.006	65	91563	25.0	23.6	
50 Chloroform	83	6.068	6.061	0.007	93	404443	5.00	4.78	
52 1,1,1-Trichloroethane	97	6.281	6.281	0.000	98	355196	5.00	4.81	
$ 53 Dibromofluoromethane (Surr)	113	6.287	6.281	0.006	94	428749	10.0	10.2	
54 Cyclohexane	56	6.372	6.378	-0.006	91	401966	5.00	4.83	
55 Carbon tetrachloride	117	6.488	6.488	0.000	96	305677	5.00	4.93	
56 1,1-Dichloropropene	75	6.506	6.500	0.006	98	328752	5.00	4.76	
57 Isobutyl alcohol	41	6.702	6.708	-0.006	93	105382	125.0	109.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.744	6.744	0.000	93	89297	10.0	10.3	
59 Benzene	78	6.769	6.769	0.000	97	990321	5.00	4.78	
61 1,2-Dichloroethane	62	6.848	6.848	0.000	97	247847	5.00	4.73	
63 Tert-amyl methyl ether	73	6.976	6.976	0.000	99	700822	5.00	5.10	
* 64 Fluorobenzene (IS)	96	7.189	7.189	0.000	99	1798989	10.0	10.0	
65 n-Heptane	43	7.201	7.201	0.000	93	356351	5.00	4.79	
66 n-Butanol	56	7.616	7.610	0.006	88	198746	250.0	257.6	
67 Trichloroethene	95	7.677	7.677	0.000	97	255360	5.00	4.81	
68 Methylcyclohexane	83	7.976	7.976	0.000	90	424466	5.00	4.81	
69 1,2-Dichloropropane	63	8.012	8.012	0.000	95	258086	5.00	4.69	
70 2-ethoxy-2-methyl butane	87	8.037	8.037	0.000	93	395969	5.00	4.94	
72 1,4-Dioxane	88	8.122	8.116	0.006	29	24303	125.0	125.5	M
71 Methyl methacrylate	69	8.122	8.122	0.000	91	121726	5.00	4.62	
73 Dibromomethane	93	8.128	8.128	0.000	94	120607	5.00	4.91	
75 Dichlorobromomethane	83	8.372	8.372	0.000	100	300668	5.00	4.98	
76 2-Nitropropane	41	8.665	8.658	0.007	97	30841	5.00	4.11	
78 1-Bromo-2-chloroethane	63	8.768	8.768	0.000	98	283197	5.00	5.16	
79 cis-1,3-Dichloropropene	75	8.945	8.945	0.000	97	391426	5.00	4.94	
81 4-Methyl-2-pentanone (MIBK)	43	9.146	9.152	-0.006	97	2066314	62.5	55.9	
$ 82 Toluene-d8 (Surr)	98	9.274	9.280	-0.006	93	1849294	10.0	9.98	
83 Toluene	92	9.360	9.360	0.000	98	641756	5.00	4.69	
84 trans-1,3-Dichloropropene	75	9.658	9.658	0.000	91	330219	5.00	5.02	
85 Ethyl methacrylate	69	9.731	9.731	0.000	90	265746	5.00	5.00	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	184307	5.00	4.87	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	305265	5.00	4.79	
102 1,3-Dichloropropane	76	10.042	10.042	0.000	90	309350	5.00	4.73	
104 2-Hexanone	43	10.109	10.109	0.000	96	1502950	62.5	57.4	
106 Chlorodibromomethane	129	10.262	10.262	0.000	90	229415	5.00	5.07	
107 Ethylene Dibromide	107	10.372	10.378	-0.006	98	175714	5.00	4.93	
* 108 Chlorobenzene-d5 (IS)	117	10.829	10.829	0.000	84	1406735	10.0	10.0	
109 1-Chlorohexane	91	10.847	10.853	-0.006	98	350879	5.00	4.50	
110 Chlorobenzene	112	10.859	10.859	0.000	97	752525	5.00	4.66	
111 1,1,1,2-Tetrachloroethane	131	10.945	10.945	0.000	97	257817	5.00	4.82	
112 Ethylbenzene	91	10.951	10.951	0.000	98	1254603	5.00	4.72	
113 m-Xylene & p-Xylene	106	11.073	11.073	0.000	100	1012701	10.0	9.50	
115 o-Xylene	106	11.414	11.414	0.000	95	496441	5.00	4.69	
116 Styrene	104	11.432	11.432	0.000	95	834987	5.00	4.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 Bromoform	173	11.585	11.585	0.000	98	138988	5.00	5.27	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	1284010	5.00	4.77	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	95	680798	10.0	9.92	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	72	237191	5.00	4.75	
122 Bromobenzene	156	11.987	11.987	0.000	88	334552	5.00	4.77	
124 trans-1,4-Dichloro-2-butene	53	12.011	12.012	-0.001	90	282023	25.0	23.4	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	81	61168	5.00	4.69	
126 N-Propylbenzene	91	12.060	12.066	-0.006	99	1512343	5.00	4.50	
127 2-Chlorotoluene	126	12.133	12.140	-0.007	98	321528	5.00	4.56	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	1092075	5.00	4.51	
129 4-Chlorotoluene	126	12.231	12.231	0.000	97	333408	5.00	4.61	
130 tert-Butylbenzene	134	12.450	12.450	0.000	93	255091	5.00	4.78	
131 Pentachloroethane	167	12.481	12.481	0.000	94	211945	5.00	5.25	
132 1,2,4-Trimethylbenzene	105	12.493	12.493	0.000	97	1151235	5.00	4.58	
133 sec-Butylbenzene	105	12.615	12.615	0.000	94	1433895	5.00	4.66	
134 1,3-Dichlorobenzene	146	12.713	12.713	0.000	98	663913	5.00	4.61	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	1269907	5.00	4.63	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	93	844025	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	96	683579	5.00	4.65	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	526609	5.00	4.59	
139 Benzyl chloride	126	12.871	12.871	0.000	98	108451	5.00	5.26	
140 n-Butylbenzene	92	13.023	13.030	-0.007	97	632013	5.00	4.58	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	613815	5.00	4.64	
142 p-Diethylbenzene	119	13.078	13.078	0.000	86	633721	5.00	4.53	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	33812	5.00	4.80	
146 1,3,5-Trichlorobenzene	180	13.731	13.731	0.000	98	544915	5.00	4.81	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	449194	5.00	4.70	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	96	238677	5.00	4.84	
149 Naphthalene	128	14.340	14.340	0.000	96	732590	5.00	4.82	
150 1,2,3-Trichlorobenzene	180	14.487	14.487	0.000	96	366857	5.00	4.76	
151 2-Methylnaphthalene	142	15.090	15.090	0.000	92	366326	5.00	5.10	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00070	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00073	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00098	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00019	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00057	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 05-Sep-2022 12:39:29 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X04.D

Injection Date: 05-Sep-2022 11:34:30 Instrument ID: 10193 Operator ID: knk41612

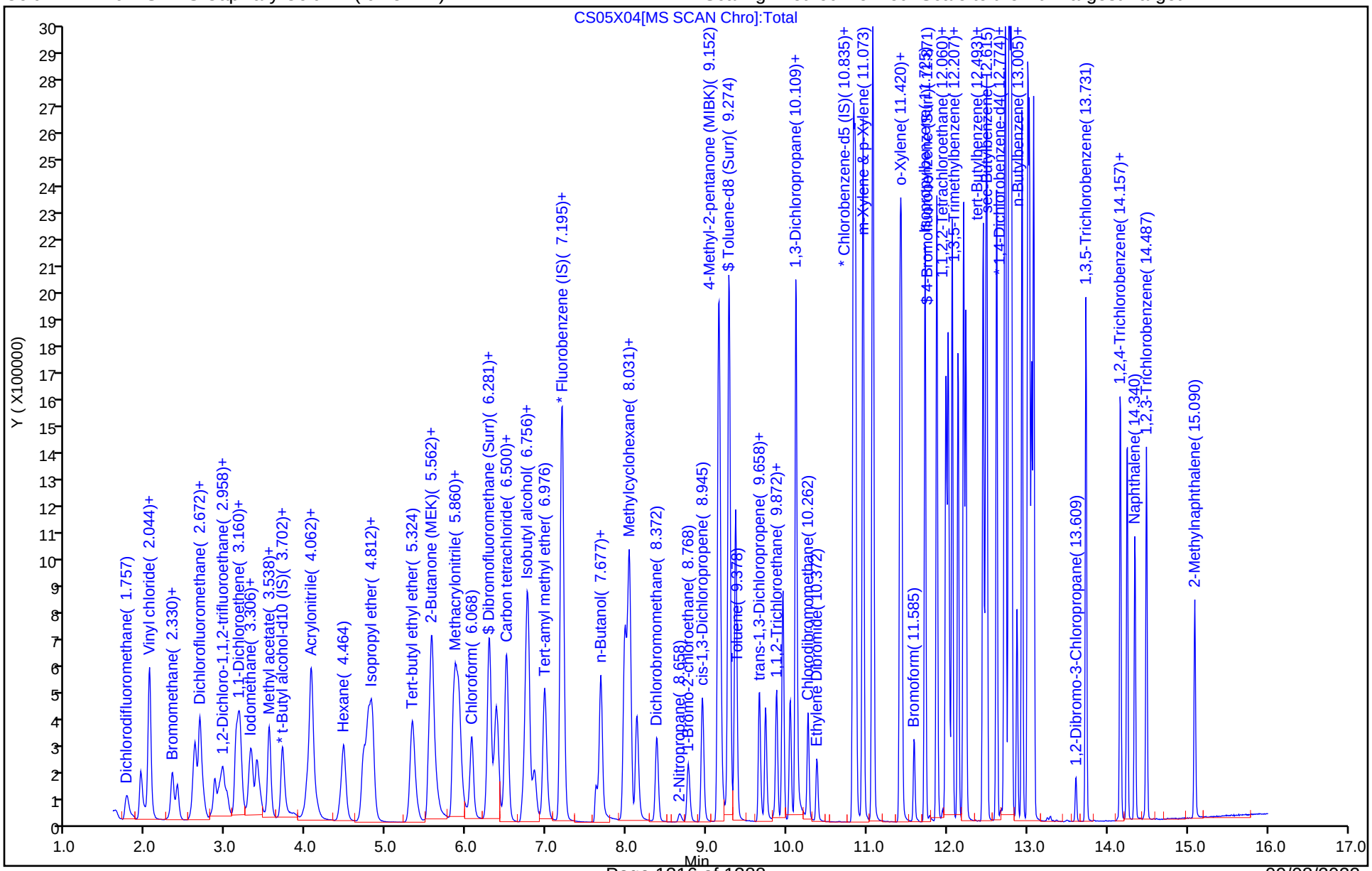
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X04.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	05-Sep-2022 11:34:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065639-005				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	05-Sep-2022 12:39:26	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1663				

First Level Reviewer: DVW2 Date: 05-Sep-2022 12:29:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.2	101.98
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.31
$ 82 Toluene-d8 (Surr)	10.0	9.98	99.77
$ 121 4-Bromofluorobenzene (Surr)	10.0	9.92	99.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-292755/4

Matrix: Water Lab File ID: GS05X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 10:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292755 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.24		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.14		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.84		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.94		0.50	0.080
75-34-3	1,1-Dichloroethane	4.79		0.50	0.10
75-35-4	1,1-Dichloroethene	5.19		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.93		0.50	0.080
107-06-2	1,2-Dichloroethane	4.84		0.50	0.070
78-87-5	1,2-Dichloropropane	4.94		0.50	0.10
78-93-3	2-Butanone (MEK)	63.7		5.0	1.0
591-78-6	2-Hexanone	66.7		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	64.0		5.0	1.0
67-64-1	Acetone	53.9		5.0	1.0
71-43-2	Benzene	4.83		0.50	0.10
74-97-5	Bromochloromethane	5.06		0.50	0.080
75-27-4	Bromodichloromethane	5.33		0.50	0.080
75-25-2	Bromoform	5.99		1.0	0.30
74-83-9	Bromomethane	4.81		0.50	0.10
75-15-0	Carbon disulfide	5.70		1.0	0.10
56-23-5	Carbon tetrachloride	5.27		0.50	0.10
108-90-7	Chlorobenzene	4.78		0.50	0.070
75-00-3	Chloroethane	4.88		0.50	0.10
67-66-3	Chloroform	4.93		0.50	0.090
74-87-3	Chloromethane	4.73		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.05		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.19		0.50	0.10
124-48-1	Dibromochloromethane	5.59		0.50	0.080
100-41-4	Ethylbenzene	4.82		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.00		0.50	0.080
75-09-2	Methylene Chloride	4.88		0.50	0.10
100-42-5	Styrene	4.87		0.50	0.070
127-18-4	Tetrachloroethene	4.97		0.50	0.20
108-88-3	Toluene	4.80		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-292755/4

Matrix: Water Lab File ID: GS05X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 10:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292755 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.87		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.55		0.50	0.080
79-01-6	Trichloroethene	4.89		0.50	0.080
75-01-4	Vinyl chloride	4.72		0.50	0.10
1330-20-7	Xylenes, Total	14.7		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Sep-2022 10:59:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065640-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Sep-2022 12:33:45 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: DVW2 Date: 05-Sep-2022 11:55:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	293225	5.00	4.84	
5 Chloromethane	50	2.093	2.093	0.000	99	322907	5.00	4.73	
6 Vinyl chloride	62	2.203	2.203	0.001	97	329155	5.00	4.72	
7 Butadiene	39	2.215	2.215	0.000	92	301051	5.00	4.54	
9 Bromomethane	94	2.526	2.526	0.000	91	265060	5.00	4.81	
10 Chloroethane	64	2.599	2.605	-0.006	99	202874	5.00	4.88	
11 Dichlorofluoromethane	67	2.837	2.837	0.000	97	514676	5.00	5.06	
12 Trichlorofluoromethane	101	2.910	2.904	0.006	98	477459	5.00	4.98	
13 Ethyl ether	59	3.123	3.129	-0.006	89	178936	4.98	4.02	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.221	3.221	0.000	89	326710	5.00	4.82	
17 Acrolein	56	3.300	3.300	0.000	99	216828	37.5	34.8	
18 1,1-Dichloroethene	96	3.422	3.422	0.000	97	260606	5.00	5.19	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.464	3.464	0.000	91	271647	5.00	5.55	
20 Acetone	43	3.464	3.471	-0.007	89	368269	62.5	53.9	
21 Iodomethane	142	3.605	3.611	-0.006	99	486448	5.00	5.11	
22 Ethyl bromide	108	3.635	3.641	-0.006	98	192025	4.89	4.16	
24 Isopropyl alcohol	45	3.708	3.696	0.012	25	31131	37.5	24.2	
23 Carbon disulfide	76	3.702	3.708	-0.006	99	699114	5.00	5.70	
25 Methyl acetate	43	3.842	3.861	-0.019	97	91619	5.00	4.33	
27 3-Chloro-1-propene	41	3.879	3.885	-0.006	89	346019	5.00	5.10	
29 Methylene Chloride	84	4.062	4.062	0.000	87	271682	5.00	4.88	
* 30 t-Butyl alcohol-d10 (IS)	65	4.117	4.123	-0.006	60	134650	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.245	4.233	0.012	98	100337	50.0	42.0	
32 Acrylonitrile	53	4.391	4.403	-0.012	99	236066	25.0	26.1	
33 Methyl tert-butyl ether	73	4.452	4.452	0.000	89	716784	5.00	5.00	
34 trans-1,2-Dichloroethene	96	4.458	4.464	-0.006	97	285668	5.00	4.87	
35 Hexane	57	4.885	4.891	-0.006	91	343242	5.00	5.36	
37 1,1-Dichloroethane	63	5.129	5.129	0.000	96	456656	5.00	4.79	
38 Isopropyl ether	45	5.184	5.190	-0.006	93	781326	5.00	4.95	
39 2-Chloro-1,3-butadiene	53	5.239	5.239	0.001	90	394414	5.00	5.20	
40 Tert-butyl ethyl ether	59	5.726	5.726	0.000	96	816427	5.00	5.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.940	5.940	0.000	99	859354	62.5	63.7	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	80	323563	5.00	5.05	
43 2,2-Dichloropropane	77	5.982	5.976	0.006	86	421136	5.00	5.46	
45 Propionitrile	54	6.037	6.031	0.006	99	118773	37.5	37.2	
48 Methacrylonitrile	67	6.238	6.238	0.000	90	560316	37.5	38.9	
49 Chlorobromomethane	128	6.293	6.299	-0.006	87	155545	5.00	5.06	
50 Tetrahydrofuran	71	6.305	6.305	0.000	76	104460	25.0	26.1	
51 Chloroform	83	6.452	6.452	0.000	93	503350	5.00	4.93	
$ 52 Dibromofluoromethane (Surr)	113	6.665	6.665	0.000	94	583889	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.677	6.677	0.000	97	457970	5.00	5.14	
54 Cyclohexane	56	6.775	6.775	0.000	88	416314	5.00	5.14	
56 Carbon tetrachloride	117	6.885	6.885	0.000	96	404255	5.00	5.27	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	96	391220	5.00	4.94	
58 Isobutyl alcohol	41	7.086	7.080	0.006	92	92647	125.0	110.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.116	0.006	91	122949	10.0	10.0	
60 Benzene	78	7.153	7.153	0.000	97	1128423	5.00	4.83	
61 1,2-Dichloroethane	62	7.220	7.220	0.000	98	322220	5.00	4.84	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	794180	5.00	5.16	
* 64 Fluorobenzene (IS)	96	7.555	7.561	-0.006	99	2332352	10.0	10.0	
65 n-Heptane	43	7.573	7.573	0.000	88	359453	5.00	5.37	
67 n-Butanol	56	7.976	7.976	0.000	88	187138	250.0	268.7	
68 Trichloroethene	95	8.037	8.043	-0.006	96	319123	5.00	4.89	
69 Methylcyclohexane	83	8.348	8.348	0.000	89	501822	5.00	5.17	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	96	282015	5.00	4.94	
71 2-ethoxy-2-methyl butane	87	8.384	8.390	-0.006	96	463117	5.00	5.07	
72 Methyl methacrylate	69	8.464	8.463	0.001	87	147345	5.00	5.26	
73 Dibromomethane	93	8.482	8.482	0.000	91	155442	5.00	4.96	
74 1,4-Dioxane	88	8.524	8.512	0.012	61	28184	125.0	184.7	M
76 Dichlorobromomethane	83	8.720	8.720	0.000	99	365709	5.00	5.33	
77 2-Nitropropane	41	9.006	9.000	0.006	99	35036	5.00	5.56	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	316799	5.00	5.12	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	444361	5.00	5.19	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	2270405	62.5	64.0	
$ 83 Toluene-d8 (Surr)	98	9.591	9.597	-0.006	93	2381967	10.0	10.0	
84 Toluene	92	9.671	9.671	0.000	98	775341	5.00	4.80	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	399339	5.00	5.55	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	314766	5.00	5.08	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	234690	5.00	4.94	
107 Tetrachloroethene	166	10.231	10.231	0.000	98	404559	5.00	4.97	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	383188	5.00	4.92	
109 2-Hexanone	43	10.366	10.366	0.000	95	1725115	62.5	66.7	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	290628	5.00	5.59	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	230310	5.00	4.93	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1861805	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	95	431535	5.00	4.77	
115 Chlorobenzene	112	11.097	11.097	0.000	96	935155	5.00	4.78	
117 1,1,1,2-Tetrachloroethane	131	11.182	11.182	0.000	96	328712	5.00	5.24	
116 Ethylbenzene	91	11.189	11.189	0.000	98	1508580	5.00	4.82	
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	1243949	10.0	9.89	
120 o-Xylene	106	11.634	11.634	0.000	95	599622	5.00	4.81	
121 Styrene	104	11.652	11.652	0.000	94	1027572	5.00	4.87	
122 Bromoform	173	11.804	11.804	0.000	98	175090	5.00	5.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.938	11.938	0.000	95	1600954	5.00	5.02	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	95	893498	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.182	0.000	95	292485	5.00	4.84	
128 Bromobenzene	156	12.194	12.194	0.000	95	424897	5.00	4.88	
129 trans-1,4-Dichloro-2-butene	53	12.207	12.213	-0.006	94	351550	25.0	26.9	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	83	85875	5.00	4.95	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	1801319	5.00	4.74	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	394762	5.00	4.72	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	95	1368392	5.00	4.80	
134 4-Chlorotoluene	126	12.438	12.432	0.006	96	412054	5.00	4.72	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	305241	5.00	4.65	
136 Pentachloroethane	167	12.676	12.676	0.000	91	260172	5.00	5.54	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	1407024	5.00	4.80	
138 sec-Butylbenzene	105	12.810	12.810	0.000	93	1767255	5.00	4.95	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	842839	5.00	4.69	
140 4-Isopropyltoluene	119	12.914	12.914	0.000	97	1607323	5.00	4.93	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1130697	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	871710	5.00	4.63	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	646183	5.00	4.80	
144 Benzyl chloride	126	13.060	13.060	0.000	98	120756	5.00	5.18	
145 p-Diethylbenzene	119	13.115	13.115	0.000	92	955315	5.00	4.93	
146 n-Butylbenzene	92	13.206	13.206	0.000	97	761335	5.00	4.79	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	794466	5.00	4.71	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	90	44555	5.00	5.01	
150 1,3,5-Trichlorobenzene	180	13.908	13.908	0.000	98	704599	5.00	4.86	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	634639	5.00	4.67	
152 Hexachlorobutadiene	225	14.414	14.414	0.000	96	319973	5.00	4.97	
153 Naphthalene	128	14.511	14.511	0.000	96	1088404	5.00	4.73	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	576599	5.00	4.80	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	92	749479	5.00	5.05	
166 Pentane	43	2.922	2.928	-0.006	96	347105	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00070	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00098	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added: 12.50	Units: uL	
LCS_ETBR_00003	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00073	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00019	Amount Added: 12.50	Units: uL	
MSV_29_826ISS_00036	Amount Added: 1.00	Units: uL	Run Reagent

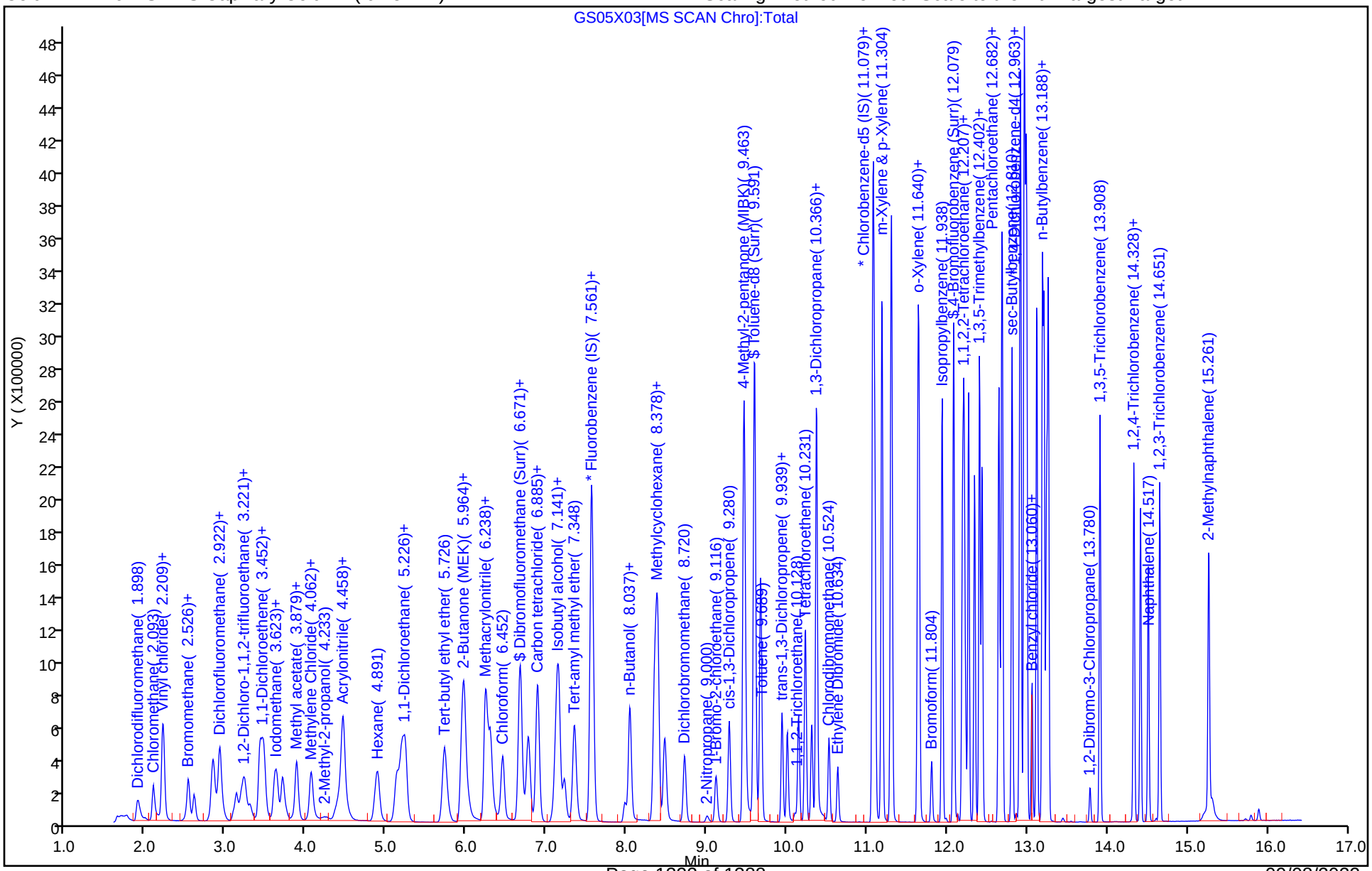
Report Date: 05-Sep-2022 12:33:50 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X03.D

Injection Date:	05-Sep-2022 10:59:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	05-Sep-2022 10:59:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065640-004				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	05-Sep-2022 12:33:45	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1663				
First Level Reviewer: DVW2		Date:	05-Sep-2022 11:55:55		

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.84
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	99.97
$ 83 Toluene-d8 (Surr)	10.0	10.0	99.90
$ 126 4-Bromofluorobenzene (Surr)	10.0	10.1	100.68

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

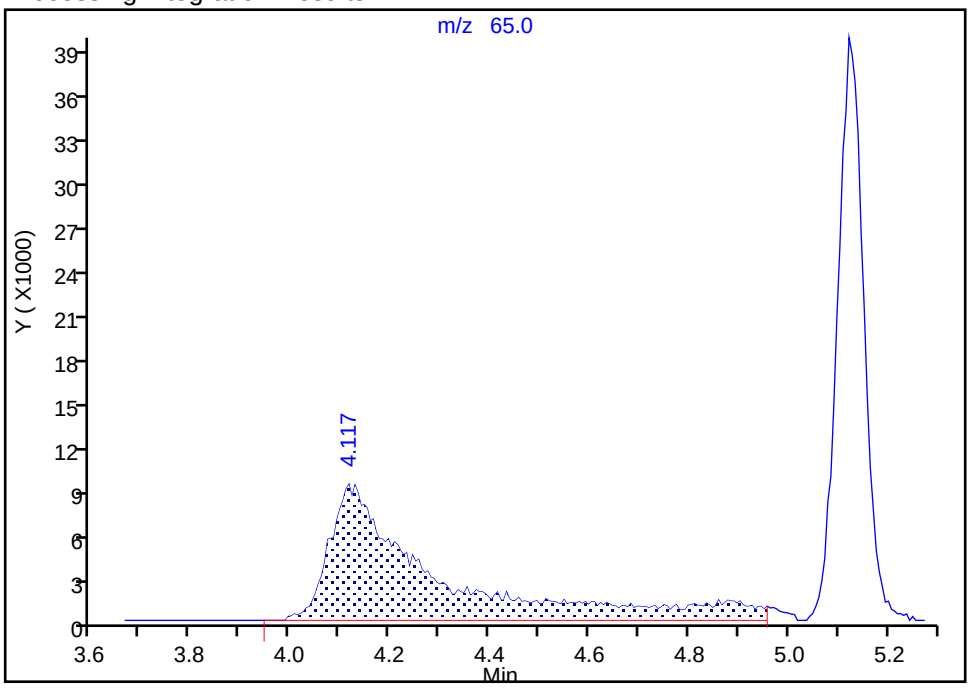
Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X03.D				
Injection Date:	05-Sep-2022 10:59:30	Instrument ID:	16334		
Lims ID:	LCS				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

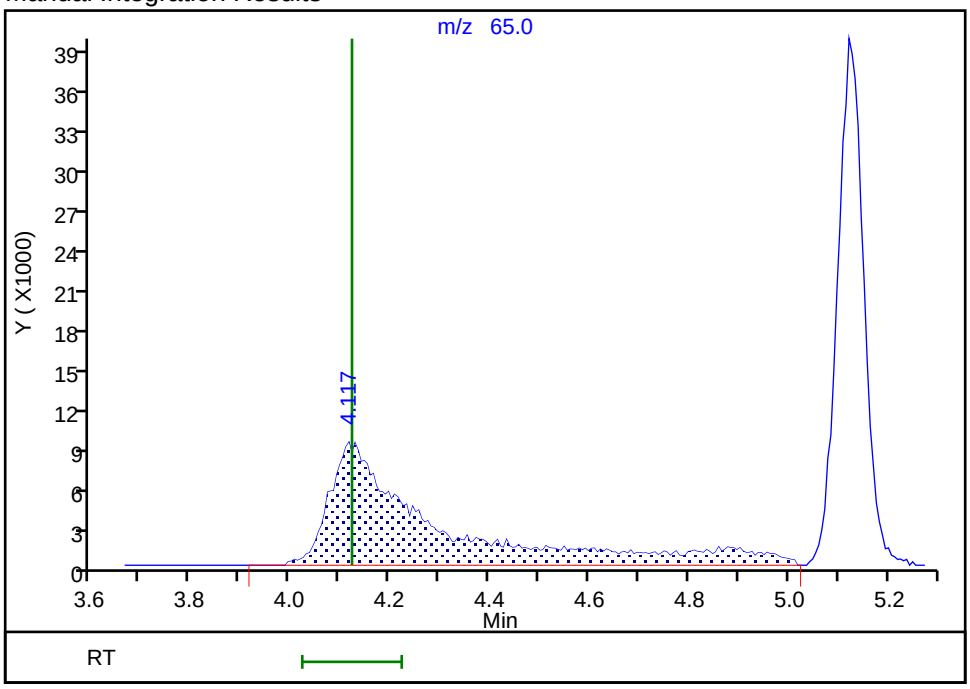
Processing Integration Results

RT: 4.12
Area: 132630
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.12
Area: 134650
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 05-Sep-2022 11:54:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-292752/6

Matrix: Water Lab File ID: CS05X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 11:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292752 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.85		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.80		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.86		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.81		0.50	0.080
75-34-3	1,1-Dichloroethane	4.67		0.50	0.10
75-35-4	1,1-Dichloroethene	5.00		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.90		0.50	0.080
107-06-2	1,2-Dichloroethane	4.51		0.50	0.070
78-87-5	1,2-Dichloropropane	4.72		0.50	0.10
78-93-3	2-Butanone (MEK)	56.5		5.0	1.0
591-78-6	2-Hexanone	56.2		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	55.3		5.0	1.0
67-64-1	Acetone	52.9		5.0	1.0
71-43-2	Benzene	4.77		0.50	0.10
74-97-5	Bromochloromethane	4.99		0.50	0.080
75-27-4	Bromodichloromethane	4.93		0.50	0.080
75-25-2	Bromoform	5.23		1.0	0.30
74-83-9	Bromomethane	4.84		0.50	0.10
75-15-0	Carbon disulfide	5.35		1.0	0.10
56-23-5	Carbon tetrachloride	4.95		0.50	0.10
108-90-7	Chlorobenzene	4.68		0.50	0.070
75-00-3	Chloroethane	4.70		0.50	0.10
67-66-3	Chloroform	4.73		0.50	0.090
74-87-3	Chloromethane	4.50		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.95		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.83		0.50	0.10
124-48-1	Dibromochloromethane	4.95		0.50	0.080
100-41-4	Ethylbenzene	4.74		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.05		0.50	0.080
75-09-2	Methylene Chloride	4.81		0.50	0.10
100-42-5	Styrene	4.80		0.50	0.070
127-18-4	Tetrachloroethene	4.83		0.50	0.20
108-88-3	Toluene	4.66		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-292752/6

Matrix: Water Lab File ID: CS05X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 11:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292752 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.78		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.04		0.50	0.080
79-01-6	Trichloroethene	4.73		0.50	0.080
75-01-4	Vinyl chloride	4.74		0.50	0.10
1330-20-7	Xylenes, Total	14.2		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X05.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 05-Sep-2022 11:57:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065639-006
Misc. Info.: LCSD
Operator ID: knk41612 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Sep-2022 12:39:26 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: DVW2 Date: 05-Sep-2022 12:31:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.751	1.751	0.000	99	233041	5.00	4.47	
5 Chloromethane	50	1.928	1.928	0.000	99	310018	5.00	4.50	
6 Vinyl chloride	62	2.026	2.032	-0.006	98	303081	5.00	4.74	
7 Butadiene	39	2.038	2.044	-0.006	91	316131	5.00	4.62	
9 Bromomethane	94	2.318	2.324	-0.006	90	205957	5.00	4.84	
10 Chloroethane	64	2.379	2.391	-0.012	100	174642	5.00	4.70	
11 Dichlorofluoromethane	67	2.605	2.605	0.000	97	420128	5.00	4.89	
12 Trichlorofluoromethane	101	2.660	2.666	-0.006	96	351184	5.00	4.84	
13 Pentane	43	2.660	2.666	-0.006	97	320946	5.00	4.99	
15 Ethyl ether	59	2.849	2.855	-0.006	92	145396	4.98	3.91	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.940	2.952	-0.012	92	266533	5.00	4.72	
17 Acrolein	56	3.001	3.007	-0.006	99	185166	37.5	30.4	M
19 1,1-Dichloroethene	96	3.117	3.123	-0.006	98	201192	5.00	5.00	
20 Acetone	43	3.154	3.153	0.001	100	361752	62.5	52.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.160	3.172	-0.012	91	197280	5.00	5.21	
22 Iodomethane	142	3.288	3.294	-0.006	97	382054	5.00	5.16	
23 Isopropyl alcohol	45	3.306	3.312	-0.006	28	46701	37.5	30.9	
24 Ethyl bromide	108	3.312	3.318	-0.006	96	161613	4.89	4.27	
25 Carbon disulfide	76	3.379	3.379	0.000	99	664919	5.00	5.35	
27 Methyl acetate	43	3.507	3.519	-0.012	25	102277	5.00	5.07	M
28 3-Chloro-1-propene	41	3.532	3.531	0.001	93	366059	5.00	4.94	
29 Methylene Chloride	84	3.696	3.702	-0.006	93	229514	5.00	4.81	
* 30 t-Butyl alcohol-d10 (IS)	65	3.721	3.745	-0.024	91	132728	50.0	50.0	
31 2-Methyl-2-propanol	59	3.818	3.836	-0.018	94	111255	50.0	40.2	
32 Acrylonitrile	53	4.001	4.013	-0.012	99	240874	25.0	23.4	
33 Methyl tert-butyl ether	73	4.050	4.062	-0.012	96	616301	5.00	5.05	
34 trans-1,2-Dichloroethene	96	4.056	4.062	-0.006	99	236802	5.00	4.78	
35 Hexane	57	4.458	4.464	-0.006	93	321977	5.00	4.84	
36 1,1-Dichloroethane	63	4.702	4.708	-0.006	96	426244	5.00	4.67	
38 Isopropyl ether	45	4.769	4.769	0.000	95	795573	5.00	4.74	
39 2-Chloro-1,3-butadiene	53	4.812	4.818	-0.006	89	344898	5.00	4.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.318	5.324	-0.006	98	769827	5.00	4.97	
41 2-Butanone (MEK)	43	5.525	5.537	-0.012	99	788418	62.5	56.5	
42 cis-1,2-Dichloroethene	96	5.562	5.562	0.000	83	268848	5.00	4.95	
43 2,2-Dichloropropane	77	5.574	5.568	0.006	69	353881	5.00	4.91	
45 Propionitrile	54	5.653	5.641	0.012	97	123175	37.5	35.5	
46 Methacrylonitrile	67	5.848	5.854	-0.006	92	493090	37.5	33.5	
47 Chlorobromomethane	128	5.897	5.903	-0.006	94	120060	5.00	4.99	
48 Tetrahydrofuran	71	5.903	5.909	-0.006	81	94451	25.0	23.9	
50 Chloroform	83	6.062	6.061	0.001	93	406330	5.00	4.73	
52 1,1,1-Trichloroethane	97	6.281	6.281	0.000	97	360396	5.00	4.80	
$ 53 Dibromofluoromethane (Surr)	113	6.281	6.281	0.000	94	439322	10.0	10.3	
54 Cyclohexane	56	6.366	6.378	-0.012	90	408814	5.00	4.84	
55 Carbon tetrachloride	117	6.482	6.488	-0.006	94	312354	5.00	4.95	
56 1,1-Dichloropropene	75	6.501	6.500	0.001	98	332457	5.00	4.73	
57 Isobutyl alcohol	41	6.702	6.708	-0.006	94	108801	125.0	110.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.738	6.744	-0.006	95	90244	10.0	10.3	
59 Benzene	78	6.763	6.769	-0.006	96	1002615	5.00	4.77	
61 1,2-Dichloroethane	62	6.848	6.848	0.000	97	240512	5.00	4.51	
63 Tert-amyl methyl ether	73	6.970	6.976	-0.006	99	706237	5.00	5.06	
* 64 Fluorobenzene (IS)	96	7.183	7.189	-0.006	99	1828221	10.0	10.0	
65 n-Heptane	43	7.196	7.201	-0.005	93	355699	5.00	4.71	
66 n-Butanol	56	7.616	7.610	0.006	89	190354	250.0	241.8	
67 Trichloroethene	95	7.671	7.677	-0.006	97	255253	5.00	4.73	
68 Methylcyclohexane	83	7.970	7.976	-0.006	90	429496	5.00	4.79	
69 1,2-Dichloropropane	63	8.012	8.012	0.000	95	263870	5.00	4.72	
70 2-ethoxy-2-methyl butane	87	8.031	8.037	-0.006	93	401055	5.00	4.92	
72 1,4-Dioxane	88	8.122	8.116	0.006	28	23329	125.0	118.1	M
71 Methyl methacrylate	69	8.122	8.122	0.000	91	124545	5.00	4.63	
73 Dibromomethane	93	8.122	8.128	-0.006	91	120675	5.00	4.84	
75 Dichlorobromomethane	83	8.372	8.372	0.000	99	302569	5.00	4.93	
76 2-Nitropropane	41	8.659	8.658	0.001	97	31673	5.00	4.14	
78 1-Bromo-2-chloroethane	63	8.762	8.768	-0.006	98	287082	5.00	5.15	
79 cis-1,3-Dichloropropene	75	8.945	8.945	0.000	97	388486	5.00	4.83	
81 4-Methyl-2-pentanone (MIBK)	43	9.146	9.152	-0.006	96	2088266	62.5	55.3	
$ 82 Toluene-d8 (Surr)	98	9.274	9.280	-0.006	93	1873173	10.0	10.0	
83 Toluene	92	9.360	9.360	0.000	98	642489	5.00	4.66	
84 trans-1,3-Dichloropropene	75	9.652	9.658	-0.006	92	333934	5.00	5.04	
85 Ethyl methacrylate	69	9.732	9.731	0.001	90	268607	5.00	5.01	
86 1,1,2-Trichloroethane	97	9.866	9.872	-0.006	90	183557	5.00	4.81	
87 Tetrachloroethene	166	9.945	9.951	-0.006	97	310147	5.00	4.83	
102 1,3-Dichloropropane	76	10.036	10.042	-0.006	90	312102	5.00	4.74	
104 2-Hexanone	43	10.110	10.109	0.001	96	1501538	62.5	56.2	
106 Chlorodibromomethane	129	10.262	10.262	0.000	90	225638	5.00	4.95	
107 Ethylene Dibromide	107	10.372	10.378	-0.006	99	175914	5.00	4.90	
* 108 Chlorobenzene-d5 (IS)	117	10.829	10.829	0.000	84	1416794	10.0	10.0	
109 1-Chlorohexane	91	10.847	10.853	-0.006	98	358739	5.00	4.57	
110 Chlorobenzene	112	10.853	10.859	-0.006	97	760429	5.00	4.68	
111 1,1,1,2-Tetrachloroethane	131	10.945	10.945	0.000	97	260835	5.00	4.85	
112 Ethylbenzene	91	10.951	10.951	0.000	98	1268829	5.00	4.74	
113 m-Xylene & p-Xylene	106	11.073	11.073	0.000	100	1022027	10.0	9.52	
115 o-Xylene	106	11.414	11.414	0.000	95	502281	5.00	4.71	
116 Styrene	104	11.426	11.432	-0.006	94	837289	5.00	4.80	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 Bromoform	173	11.585	11.585	0.000	97	138964	5.00	5.23	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	1306316	5.00	4.82	
$ 121 4-Bromofluorobenzene (Surr)	95	11.865	11.871	-0.006	94	687226	10.0	9.95	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	70	240398	5.00	4.86	
122 Bromobenzene	156	11.981	11.987	-0.006	91	339497	5.00	4.88	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	87	278510	25.0	23.3	
125 1,2,3-Trichloropropane	110	12.024	12.030	-0.006	81	62968	5.00	4.87	
126 N-Propylbenzene	91	12.060	12.066	-0.006	99	1534554	5.00	4.61	
127 2-Chlorotoluene	126	12.134	12.140	-0.006	97	324227	5.00	4.64	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	1110463	5.00	4.63	
129 4-Chlorotoluene	126	12.231	12.231	0.000	97	338860	5.00	4.73	
130 tert-Butylbenzene	134	12.451	12.450	0.001	93	259918	5.00	4.91	
131 Pentachloroethane	167	12.481	12.481	0.000	93	213126	5.00	5.33	
132 1,2,4-Trimethylbenzene	105	12.493	12.493	0.000	96	1159066	5.00	4.65	
133 sec-Butylbenzene	105	12.615	12.615	0.000	94	1456300	5.00	4.78	
134 1,3-Dichlorobenzene	146	12.713	12.713	0.000	98	671629	5.00	4.71	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	1286149	5.00	4.74	
* 136 1,4-Dichlorobenzene-d4	152	12.768	12.774	-0.006	94	835911	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.786	12.792	-0.006	95	685973	5.00	4.71	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	532535	5.00	4.69	
139 Benzyl chloride	126	12.871	12.871	0.000	98	107738	5.00	5.27	
140 n-Butylbenzene	92	13.024	13.030	-0.006	97	638738	5.00	4.67	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	617670	5.00	4.71	
142 p-Diethylbenzene	119	13.079	13.078	0.001	86	640769	5.00	4.63	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	34835	5.00	4.99	
146 1,3,5-Trichlorobenzene	180	13.731	13.731	0.000	98	546106	5.00	4.87	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	460050	5.00	4.86	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	96	241304	5.00	4.94	
149 Naphthalene	128	14.340	14.340	0.000	97	744728	5.00	4.95	
150 1,2,3-Trichlorobenzene	180	14.487	14.487	0.000	96	373389	5.00	4.90	
151 2-Methylnaphthalene	142	15.090	15.090	0.000	92	389511	5.00	5.48	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCS_ETBR_00003	Amount Added: 12.50	Units: uL	
MSV_LCS_VOC#1_00070	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00073	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00098	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00019	Amount Added: 12.50	Units: uL	
MSV_HP25_ISSS_00057	Amount Added: 1.00	Units: uL	Run Reagent

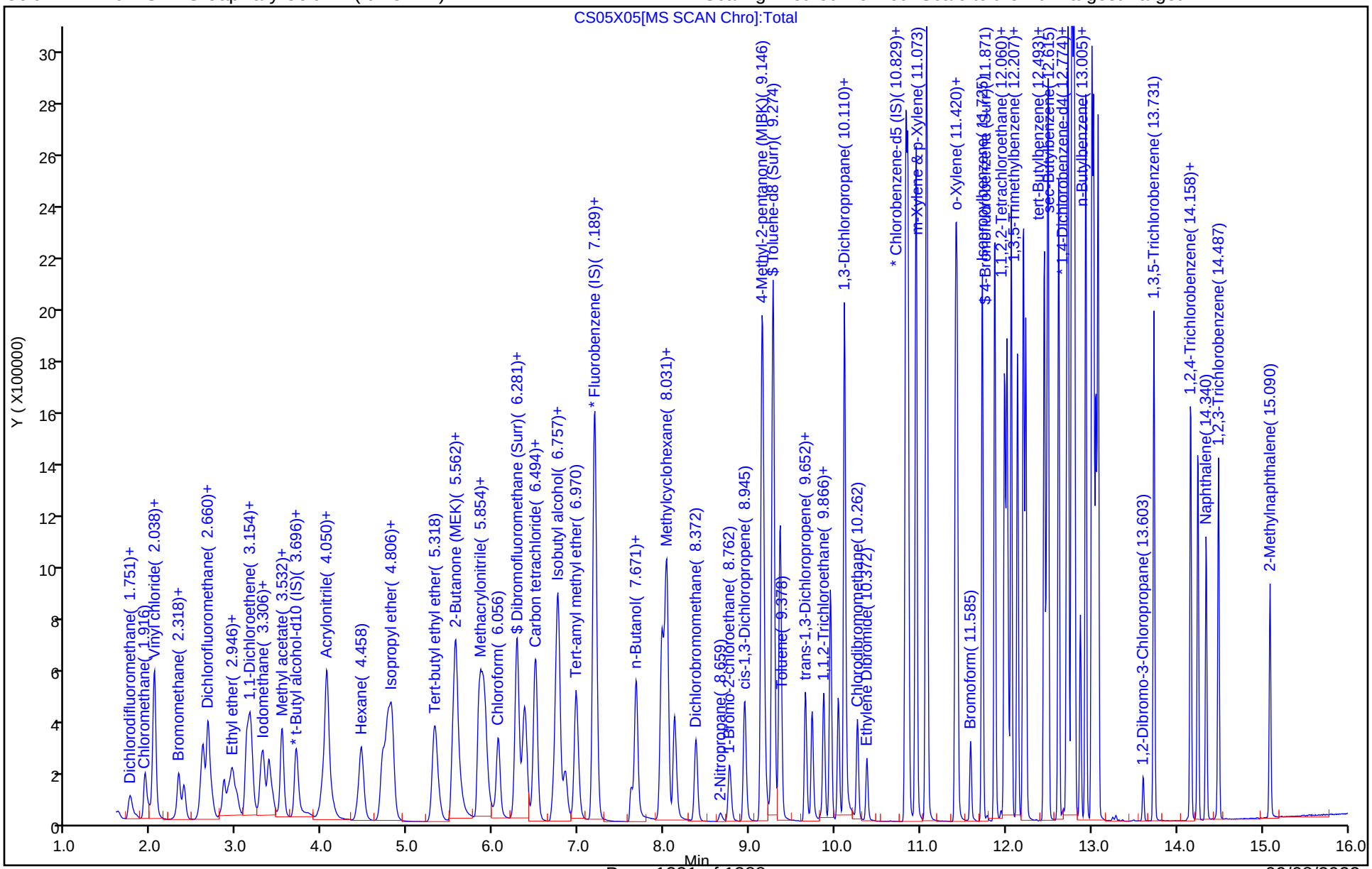
Report Date: 05-Sep-2022 12:39:32 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X05.D

Injection Date:	05-Sep-2022 11:57:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	LCSD			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\CS05X05.D				
Lims ID:	LCSD				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	05-Sep-2022 11:57:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065639-006				
Misc. Info.:	LCSD				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20220905-65639.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	05-Sep-2022 12:39:26	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1663				

First Level Reviewer: DVW2 Date: 05-Sep-2022 12:31:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.3	102.82
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.73
$ 82 Toluene-d8 (Surr)	10.0	10.0	100.34
$ 121 4-Bromofluorobenzene (Surr)	10.0	9.95	99.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-292755/5

Matrix: Water Lab File ID: GS05X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 11:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292755 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.06		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.91		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.81		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.79		0.50	0.080
75-34-3	1,1-Dichloroethane	4.67		0.50	0.10
75-35-4	1,1-Dichloroethene	4.68		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.77		0.50	0.080
107-06-2	1,2-Dichloroethane	4.85		0.50	0.070
78-87-5	1,2-Dichloropropane	4.78		0.50	0.10
78-93-3	2-Butanone (MEK)	52.0		5.0	1.0
591-78-6	2-Hexanone	53.4		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	53.6		5.0	1.0
67-64-1	Acetone	48.7		5.0	1.0
71-43-2	Benzene	4.68		0.50	0.10
74-97-5	Bromochloromethane	4.97		0.50	0.080
75-27-4	Bromodichloromethane	5.19		0.50	0.080
75-25-2	Bromoform	5.77		1.0	0.30
74-83-9	Bromomethane	4.59		0.50	0.10
75-15-0	Carbon disulfide	5.36		1.0	0.10
56-23-5	Carbon tetrachloride	4.99		0.50	0.10
108-90-7	Chlorobenzene	4.61		0.50	0.070
75-00-3	Chloroethane	4.66		0.50	0.10
67-66-3	Chloroform	4.75		0.50	0.090
74-87-3	Chloromethane	4.46		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.91		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.04		0.50	0.10
124-48-1	Dibromochloromethane	5.39		0.50	0.080
100-41-4	Ethylbenzene	4.65		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.90		0.50	0.080
75-09-2	Methylene Chloride	4.76		0.50	0.10
100-42-5	Styrene	4.66		0.50	0.070
127-18-4	Tetrachloroethene	4.76		0.50	0.20
108-88-3	Toluene	4.63		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-292755/5

Matrix: Water Lab File ID: GS05X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 09/05/2022 11:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 292755 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.63		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.33		0.50	0.080
79-01-6	Trichloroethene	4.70		0.50	0.080
75-01-4	Vinyl chloride	4.54		0.50	0.10
1330-20-7	Xylenes, Total	14.1		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 05-Sep-2022 11:21:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065640-005
Misc. Info.: LCSD
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Sep-2022 12:33:45 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: DVW2 Date: 05-Sep-2022 11:57:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	267503	5.00	4.25	
5 Chloromethane	50	2.093	2.093	0.000	99	317237	5.00	4.46	
6 Vinyl chloride	62	2.209	2.203	0.007	98	329510	5.00	4.54	
7 Butadiene	39	2.215	2.215	0.000	90	275628	5.00	3.99	
9 Bromomethane	94	2.526	2.526	0.000	91	262826	5.00	4.59	
10 Chloroethane	64	2.605	2.605	0.000	100	201908	5.00	4.66	
11 Dichlorofluoromethane	67	2.843	2.837	0.006	97	504466	5.00	4.76	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	96	476410	5.00	4.77	
13 Ethyl ether	59	3.129	3.129	0.000	89	179133	4.98	3.87	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.221	3.221	0.000	89	308815	5.00	4.38	
17 Acrolein	56	3.306	3.300	0.006	98	220022	37.5	27.2	
18 1,1-Dichloroethene	96	3.428	3.422	0.006	97	244581	5.00	4.68	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.464	0.001	89	257565	5.00	5.05	
20 Acetone	43	3.471	3.471	0.000	86	431780	62.5	48.7	
21 Iodomethane	142	3.611	3.611	0.000	99	492186	5.00	4.97	
22 Ethyl bromide	108	3.641	3.641	0.000	98	189186	4.89	3.94	
24 Isopropyl alcohol	45	3.696	3.696	0.000	27	27855	37.5	20.8	
23 Carbon disulfide	76	3.709	3.708	0.000	99	683077	5.00	5.36	
25 Methyl acetate	43	3.867	3.861	0.006	96	106106	5.00	3.86	
27 3-Chloro-1-propene	41	3.885	3.885	0.000	91	345815	5.00	4.90	
29 Methylene Chloride	84	4.062	4.062	0.000	88	275503	5.00	4.76	
* 30 t-Butyl alcohol-d10 (IS)	65	4.123	4.123	0.000	60	175013	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.245	4.233	0.012	99	96656	50.0	31.2	
32 Acrylonitrile	53	4.403	4.403	0.000	99	275408	25.0	23.4	
33 Methyl tert-butyl ether	73	4.458	4.452	0.006	94	731296	5.00	4.90	
34 trans-1,2-Dichloroethene	96	4.458	4.464	-0.006	98	282558	5.00	4.63	
35 Hexane	57	4.891	4.891	0.000	91	330333	5.00	4.96	
37 1,1-Dichloroethane	63	5.129	5.129	0.000	95	463359	5.00	4.67	
38 Isopropyl ether	45	5.190	5.190	0.000	93	785541	5.00	4.79	
39 2-Chloro-1,3-butadiene	53	5.239	5.239	0.001	90	385961	5.00	4.89	
40 Tert-butyl ethyl ether	59	5.726	5.726	0.000	97	825266	5.00	4.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.940	5.940	0.000	99	911532	62.5	52.0	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	85	327843	5.00	4.91	
43 2,2-Dichloropropane	77	5.982	5.976	0.006	86	416025	5.00	5.18	
45 Propionitrile	54	6.037	6.031	0.006	98	145380	37.5	35.0	
48 Methacrylonitrile	67	6.238	6.238	0.000	90	590098	37.5	31.6	
49 Chlorobromomethane	128	6.299	6.299	0.000	83	158893	5.00	4.97	
50 Tetrahydrofuran	71	6.306	6.305	0.001	69	119226	25.0	22.9	
51 Chloroform	83	6.458	6.452	0.006	92	505253	5.00	4.75	
$ 52 Dibromofluoromethane (Surr)	113	6.665	6.665	0.000	94	613719	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.677	6.677	0.000	97	455521	5.00	4.91	
54 Cyclohexane	56	6.775	6.775	0.000	88	399314	5.00	4.73	
56 Carbon tetrachloride	117	6.885	6.885	0.000	95	398707	5.00	4.99	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	97	389697	5.00	4.73	
58 Isobutyl alcohol	41	7.086	7.080	0.006	94	85744	125.0	98.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.116	0.006	95	129971	10.0	10.2	
60 Benzene	78	7.153	7.153	0.000	97	1136794	5.00	4.68	
61 1,2-Dichloroethane	62	7.226	7.220	0.006	98	336463	5.00	4.85	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	806582	5.00	5.04	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2427428	10.0	10.0	
65 n-Heptane	43	7.574	7.573	0.001	92	351152	5.00	5.04	
67 n-Butanol	56	7.976	7.976	0.000	89	206706	250.0	228.4	
68 Trichloroethene	95	8.043	8.043	0.000	96	318959	5.00	4.70	
69 Methylcyclohexane	83	8.348	8.348	0.000	89	485933	5.00	4.81	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	96	284364	5.00	4.78	
71 2-ethoxy-2-methyl butane	87	8.391	8.390	0.000	96	469917	5.00	4.94	
72 Methyl methacrylate	69	8.464	8.463	0.001	88	147822	5.00	4.06	
73 Dibromomethane	93	8.482	8.482	0.000	92	159249	5.00	4.88	
74 1,4-Dioxane	88	8.506	8.512	-0.006	31	27242	125.0	139.5	
76 Dichlorobromomethane	83	8.726	8.720	0.006	99	370472	5.00	5.19	
77 2-Nitropropane	41	9.006	9.000	0.006	99	36991	5.00	4.52	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	318143	5.00	4.94	
81 cis-1,3-Dichloropropene	75	9.281	9.280	0.001	97	449387	5.00	5.04	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	2473760	62.5	53.6	
$ 83 Toluene-d8 (Surr)	98	9.598	9.597	0.001	93	2490268	10.0	10.0	
84 Toluene	92	9.671	9.671	0.000	98	780647	5.00	4.63	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	400033	5.00	5.33	
104 Ethyl methacrylate	69	10.006	10.006	0.000	87	328056	5.00	5.07	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	237671	5.00	4.79	
107 Tetrachloroethene	166	10.232	10.231	0.001	98	404447	5.00	4.76	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	387826	5.00	4.77	
109 2-Hexanone	43	10.366	10.366	0.000	95	1795608	62.5	53.4	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	292028	5.00	5.39	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	233002	5.00	4.77	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1942988	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	95	432978	5.00	4.58	
115 Chlorobenzene	112	11.097	11.097	0.000	97	940967	5.00	4.61	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	95	331368	5.00	5.06	
116 Ethylbenzene	91	11.189	11.189	0.000	98	1517765	5.00	4.65	
119 m-Xylene & p-Xylene	106	11.305	11.304	0.001	100	1236774	10.0	9.42	
120 o-Xylene	106	11.634	11.634	0.000	95	608445	5.00	4.68	
121 Styrene	104	11.652	11.652	0.000	94	1026984	5.00	4.66	
122 Bromoform	173	11.804	11.804	0.000	98	176092	5.00	5.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.939	11.938	0.001	95	1600060	5.00	4.81	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	95	927022	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.189	12.182	0.007	95	301332	5.00	4.81	
128 Bromobenzene	156	12.195	12.194	0.001	95	426254	5.00	4.72	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	94	349629	25.0	20.6	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	83	88603	5.00	4.93	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	1819080	5.00	4.62	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	393483	5.00	4.54	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	1361305	5.00	4.61	
134 4-Chlorotoluene	126	12.432	12.432	0.000	97	416601	5.00	4.60	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	327835	5.00	4.82	
136 Pentachloroethane	167	12.676	12.676	0.000	91	262234	5.00	5.39	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	1418074	5.00	4.66	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	1763338	5.00	4.76	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	844701	5.00	4.53	
140 4-Isopropyltoluene	119	12.914	12.914	0.000	97	1598489	5.00	4.73	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1172062	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	875072	5.00	4.49	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	650687	5.00	4.66	
144 Benzyl chloride	126	13.060	13.060	0.000	98	124073	5.00	5.13	
145 p-Diethylbenzene	119	13.115	13.115	0.000	93	956601	5.00	4.76	
146 n-Butylbenzene	92	13.207	13.206	0.001	97	759723	5.00	4.61	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	806098	5.00	4.61	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	91	49446	5.00	5.36	
150 1,3,5-Trichlorobenzene	180	13.908	13.908	0.000	98	707334	5.00	4.71	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	640991	5.00	4.55	
152 Hexachlorobutadiene	225	14.414	14.414	0.000	96	317117	5.00	4.75	
153 Naphthalene	128	14.511	14.511	0.000	96	1123940	5.00	4.71	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	579249	5.00	4.65	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	92	745443	5.00	4.85	
166 Pentane	43	2.928	2.928	0.000	96	341016	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00070	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00098	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00073	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00019	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00036	Amount Added:	1.00	Units: uL	Run Reagent

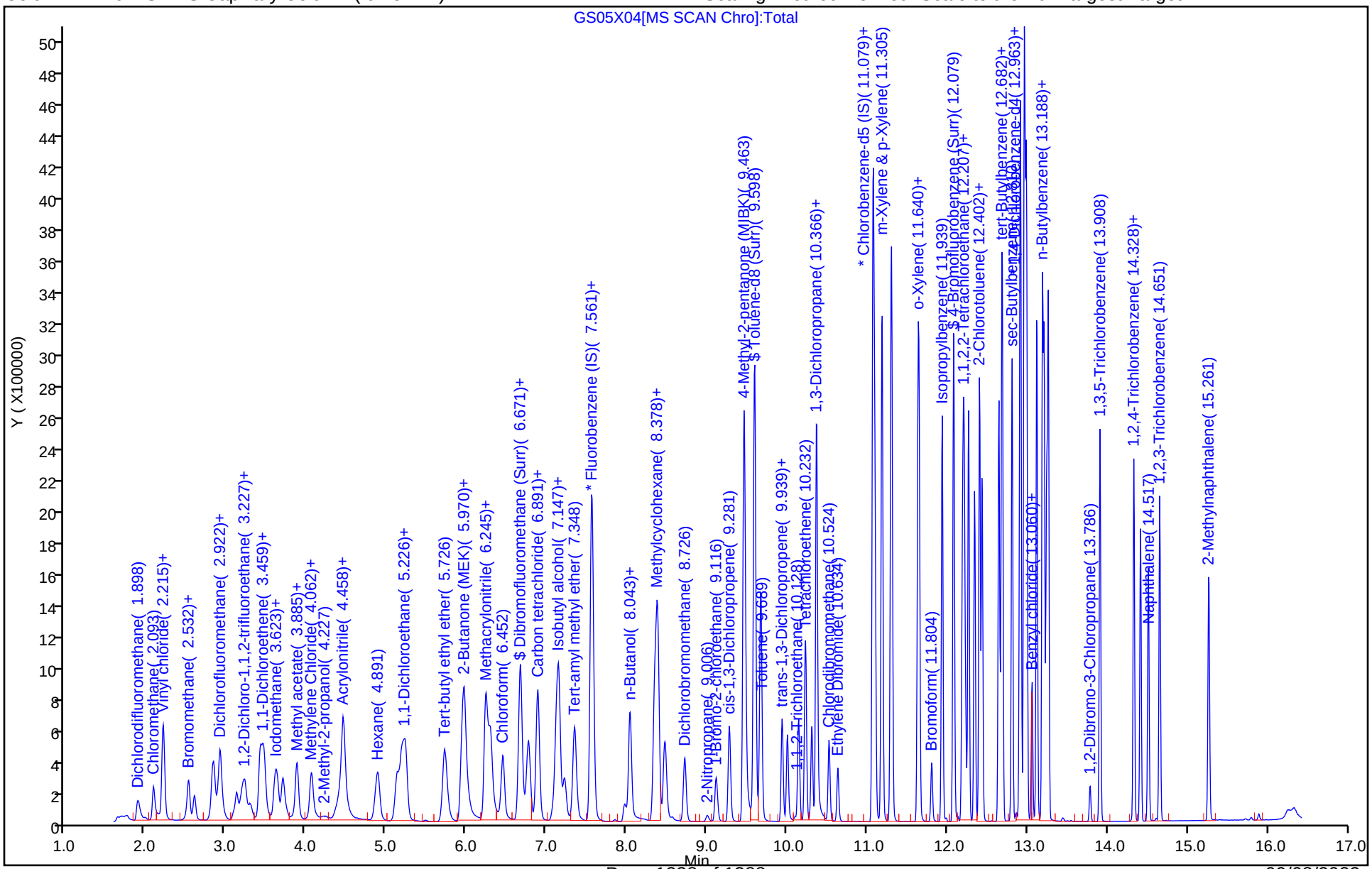
Report Date: 05-Sep-2022 12:33:54 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X04.D

Injection Date:	05-Sep-2022 11:21:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X04.D				
Lims ID:	LCSD				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	05-Sep-2022 11:21:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065640-005				
Misc. Info.:	LCSD				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	05-Sep-2022 12:33:45	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1663				

First Level Reviewer: DVW2 Date: 05-Sep-2022 11:57:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	101.84
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.55
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.08
$ 126 4-Bromofluorobenzene (Surr)	10.0	10.0	100.09

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

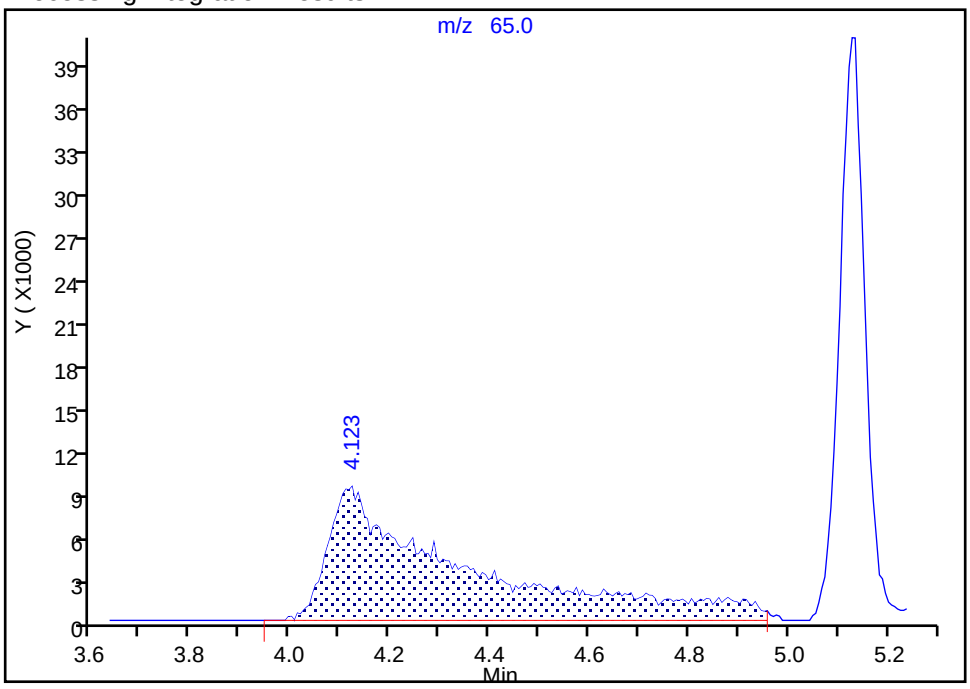
Data File:	\\chromfs\Lancaster\ChromData\16334\20220905-65640.b\GS05X04.D				
Injection Date:	05-Sep-2022 11:21:30	Instrument ID:	16334		
Lims ID:	LCSD				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

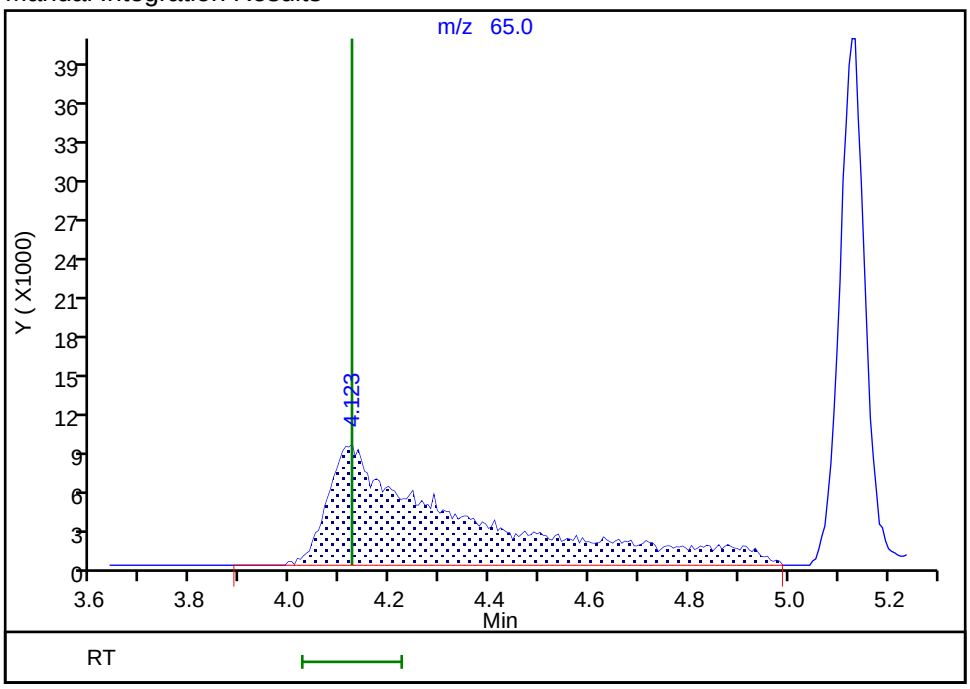
Processing Integration Results

RT: 4.12
Area: 174526
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.12
Area: 175013
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 05-Sep-2022 11:56:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS Lab Sample ID: 410-95715-6 MS

Matrix: Water Lab File ID: IG31X15.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:45

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.29		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.73		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.03		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.11		0.50	0.080
75-34-3	1,1-Dichloroethane	5.70		0.50	0.10
75-35-4	1,1-Dichloroethene	4.54		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.13		0.50	0.080
107-06-2	1,2-Dichloroethane	5.48		0.50	0.070
78-87-5	1,2-Dichloropropane	5.70		0.50	0.10
78-93-3	2-Butanone (MEK)	58.1		5.0	1.0
591-78-6	2-Hexanone	58.9		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	61.3		5.0	1.0
67-64-1	Acetone	55.3		5.0	1.0
71-43-2	Benzene	5.69		0.50	0.10
74-97-5	Bromochloromethane	5.56		0.50	0.080
75-27-4	Bromodichloromethane	5.69		0.50	0.080
75-25-2	Bromoform	4.72		1.0	0.30
74-83-9	Bromomethane	6.33		0.50	0.10
75-15-0	Carbon disulfide	5.02		1.0	0.10
56-23-5	Carbon tetrachloride	4.75		0.50	0.10
108-90-7	Chlorobenzene	5.19		0.50	0.070
75-00-3	Chloroethane	6.37		0.50	0.10
67-66-3	Chloroform	6.00		0.50	0.090
74-87-3	Chloromethane	6.00		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.02		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.14		0.50	0.10
124-48-1	Dibromochloromethane	4.95		0.50	0.080
100-41-4	Ethylbenzene	5.40		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.32		0.50	0.080
75-09-2	Methylene Chloride	5.61		0.50	0.10
100-42-5	Styrene	5.57		0.50	0.070
127-18-4	Tetrachloroethene	9.40		0.50	0.20
108-88-3	Toluene	5.09		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS Lab Sample ID: 410-95715-6 MS

Matrix: Water Lab File ID: IG31X15.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:45

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.09		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.16		0.50	0.080
79-01-6	Trichloroethene	6.81		0.50	0.080
75-01-4	Vinyl chloride	6.18		0.50	0.10
1330-20-7	Xylenes, Total	16.2		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X15.D
Lims ID: 410-95715-A-6 MS
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MS
Inject. Date: 31-Aug-2022 14:39:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-016
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:05:48 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:43:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.934	1.940	-0.006	99	348202	5.00	6.06	
4 Chloromethane	50	2.135	2.136	-0.001	99	391585	5.00	6.00	
5 Vinyl chloride	62	2.239	2.245	-0.006	97	396671	5.00	6.18	
6 Butadiene	39	2.251	2.264	-0.013	91	333391	5.00	4.59	
7 Bromomethane	94	2.580	2.593	-0.013	91	283311	5.00	6.33	
8 Chloroethane	64	2.678	2.696	-0.018	100	240498	5.00	6.37	
9 Dichlorofluoromethane	67	2.910	2.904	0.006	97	502896	5.00	5.75	
10 Trichlorofluoromethane	101	2.940	2.946	-0.006	98	392343	5.00	4.63	
11 Ethyl ether	59	3.245	3.239	0.006	91	217421	4.99	5.31	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.306	0.000	94	386821	5.00	6.02	
14 Acrolein	56	3.428	3.416	0.012	98	250449	37.5	30.9	
15 1,1-Dichloroethene	96	3.556	3.556	0.000	98	214682	5.00	4.54	
16 Acetone	43	3.599	3.574	0.025	100	528026	62.6	55.3	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.605	3.611	-0.006	82	126418	5.00	2.65	Ma
18 Iodomethane	142	3.757	3.757	0.000	99	456742	5.00	5.49	
19 Ethyl bromide	108	3.781	3.788	-0.007	99	155133	4.89	3.63	
20 Carbon disulfide	76	3.861	3.861	0.000	99	593887	5.00	5.02	
23 Methyl acetate	43	4.007	4.001	0.006	98	167785	5.00	5.97	
24 3-Chloro-1-propene	41	4.037	4.032	0.005	92	360184	5.00	5.21	
25 Methylene Chloride	84	4.226	4.221	0.005	92	290552	5.00	5.61	
* 26 t-Butyl alcohol-d10 (IS)	65	4.245	4.251	-0.006	99	173162	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.367	4.355	0.012	98	130483	50.0	43.8	
28 Acrylonitrile	53	4.568	4.556	0.012	100	318083	25.0	23.8	
29 Methyl tert-butyl ether	73	4.635	4.635	0.000	91	630974	5.00	5.32	
30 trans-1,2-Dichloroethene	96	4.647	4.647	0.000	99	267009	5.00	5.09	
31 Hexane	57	5.062	5.062	0.000	94	419665	5.00	5.73	
32 1,1-Dichloroethane	63	5.293	5.293	0.000	96	547439	5.00	5.70	
35 Isopropyl ether	45	5.360	5.361	-0.001	96	840946	5.00	5.69	
36 2-Chloro-1,3-butadiene	53	5.409	5.403	0.006	91	444678	5.00	6.32	
37 Tert-butyl ethyl ether	59	5.891	5.891	0.000	96	730426	5.00	5.33	
38 2-Butanone (MEK)	43	6.092	6.086	0.006	100	1029997	62.6	58.1	
39 cis-1,2-Dichloroethene	96	6.122	6.123	-0.001	81	411688	5.00	7.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2,2-Dichloropropane	77	6.135	6.135	0.000	56	338706	5.00	4.35	
43 Propionitrile	54	6.177	6.171	0.006	98	177227	37.5	34.4	
45 Methacrylonitrile	67	6.391	6.385	0.006	91	613700	37.5	33.2	
46 Chlorobromomethane	128	6.458	6.452	0.006	94	147793	5.00	5.56	
47 Tetrahydrofuran	71	6.470	6.458	0.012	86	120897	25.0	23.6	
48 Chloroform	83	6.604	6.604	0.000	93	578526	5.00	6.00	
$ 49 Dibromofluoromethane (Surr)	113	6.817	6.811	0.006	94	482410	10.0	10.3	
50 1,1,1-Trichloroethane	97	6.830	6.824	0.006	98	407903	5.00	4.73	
51 Cyclohexane	56	6.927	6.927	0.000	91	327551	5.00	3.79	
53 1,1-Dichloropropene	75	7.043	7.037	0.006	96	438698	5.00	5.85	
54 Carbon tetrachloride	117	7.043	7.043	0.000	94	365700	5.00	4.75	
55 Isobutyl alcohol	41	7.189	7.177	0.012	91	150645	125.1	129.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	90	94610	10.0	9.84	
57 Benzene	78	7.299	7.299	0.000	97	1284289	5.00	5.69	
58 1,2-Dichloroethane	62	7.372	7.372	0.000	97	329965	5.00	5.48	
60 Tert-amyl methyl ether	73	7.500	7.494	0.006	97	692638	5.00	5.33	
* 61 Fluorobenzene (IS)	96	7.701	7.702	-0.001	99	1864401	10.0	10.0	
62 n-Heptane	43	7.720	7.714	0.006	92	469626	5.00	5.82	
63 n-Butanol	56	8.067	8.061	0.006	92	222011	250.2	207.1	
64 Trichloroethene	95	8.183	8.183	0.000	98	409474	5.00	6.81	
65 Methylcyclohexane	83	8.488	8.494	-0.006	92	458550	5.00	4.63	
66 1,2-Dichloropropane	63	8.512	8.506	0.006	86	332088	5.00	5.70	
67 Methyl methacrylate	69	8.598	8.592	0.006	90	146312	5.00	4.39	
68 1,4-Dioxane	88	8.598	8.598	0.000	32	28670	125.1	120.6	
69 Dibromomethane	93	8.622	8.616	0.006	96	157490	5.00	5.64	
71 Dichlorobromomethane	83	8.854	8.854	0.000	99	393203	5.00	5.69	
72 2-Nitropropane	41	9.116	9.116	0.000	98	45139	5.00	4.59	
75 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	99	312879	5.00	5.26	
76 cis-1,3-Dichloropropene	75	9.402	9.396	0.006	96	426140	5.00	5.14	
77 4-Methyl-2-pentanone (MIBK)	43	9.567	9.561	0.006	97	2628350	62.6	61.3	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	1944460	10.0	9.59	
79 Toluene	92	9.780	9.780	0.000	98	816267	5.00	5.09	
97 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	93	377702	5.00	5.16	
99 Ethyl methacrylate	69	10.097	10.097	0.000	89	286282	5.00	5.18	
100 1,1,2-Trichloroethane	97	10.238	10.238	0.000	91	230777	5.00	5.11	
101 Tetrachloroethene	166	10.329	10.329	0.000	98	719233	5.00	9.40	
102 1,3-Dichloropropane	76	10.402	10.402	0.000	89	390621	5.00	5.17	
103 2-Hexanone	43	10.451	10.445	0.006	97	1826726	62.6	58.9	
105 Chlorodibromomethane	129	10.615	10.616	-0.001	90	275001	5.00	4.95	
106 Ethylene Dibromide	107	10.731	10.725	0.006	99	214692	5.00	5.13	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1562914	10.0	10.0	
108 1-Chlorohexane	91	11.164	11.164	0.000	97	459931	5.00	5.12	
109 Chlorobenzene	112	11.182	11.183	-0.001	95	933260	5.00	5.19	
111 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	95	325035	5.00	5.29	
112 Ethylbenzene	91	11.268	11.268	0.000	98	1610993	5.00	5.40	
113 m-Xylene & p-Xylene	106	11.384	11.384	0.000	100	1267828	10.0	10.9	
114 o-Xylene	106	11.713	11.713	0.000	96	588596	5.00	5.32	
115 Styrene	104	11.725	11.725	0.000	94	974532	5.00	5.57	
116 Bromoform	173	11.884	11.884	0.000	97	156667	5.00	4.72	
117 Isopropylbenzene	105	12.012	12.012	0.000	96	1515004	5.00	5.27	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	92	739611	10.0	9.95	
121 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	93	285442	5.00	5.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromobenzene	156	12.274	12.274	0.000	95	364278	5.00	4.98	
123 trans-1,4-Dichloro-2-butene	53	12.280	12.274	0.006	91	272352	25.0	17.9	
124 1,2,3-Trichloropropane	110	12.298	12.298	0.000	81	75334	5.00	5.03	
125 N-Propylbenzene	91	12.341	12.335	0.006	99	1861602	5.00	5.31	
126 2-Chlorotoluene	126	12.414	12.414	0.000	97	365289	5.00	5.05	
127 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	1266826	5.00	5.17	
128 4-Chlorotoluene	126	12.511	12.505	0.006	96	376757	5.00	5.11	
129 tert-Butylbenzene	134	12.713	12.713	0.000	93	270687	5.00	4.93	
131 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	1299437	5.00	5.33	
132 sec-Butylbenzene	105	12.877	12.877	0.000	94	1701316	5.00	5.37	
133 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	708740	5.00	5.02	
134 4-Isopropyltoluene	119	12.987	12.987	0.000	97	1448147	5.00	5.43	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	881413	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.054	13.054	0.000	96	723374	5.00	4.96	
137 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	574882	5.00	5.12	
138 Benzyl chloride	126	13.127	13.127	0.000	98	107588	5.00	5.05	
139 n-Butylbenzene	92	13.274	13.274	0.000	96	706597	5.00	5.55	
140 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	660471	5.00	5.03	
142 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	86	37377	5.00	4.62	
143 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	97	492480	5.00	5.11	
144 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	349325	5.00	4.50	
145 Hexachlorobutadiene	225	14.481	14.481	0.000	97	169365	5.00	4.62	
146 Naphthalene	128	14.584	14.584	0.000	97	574345	5.00	4.01	
147 1,2,3-Trichlorobenzene	180	14.724	14.725	-0.001	95	286199	5.00	4.16	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00070	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00073	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00003	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00097	Amount Added:	5.38	Units: uL	
LCS_ETBR_00003	Amount Added:	5.38	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

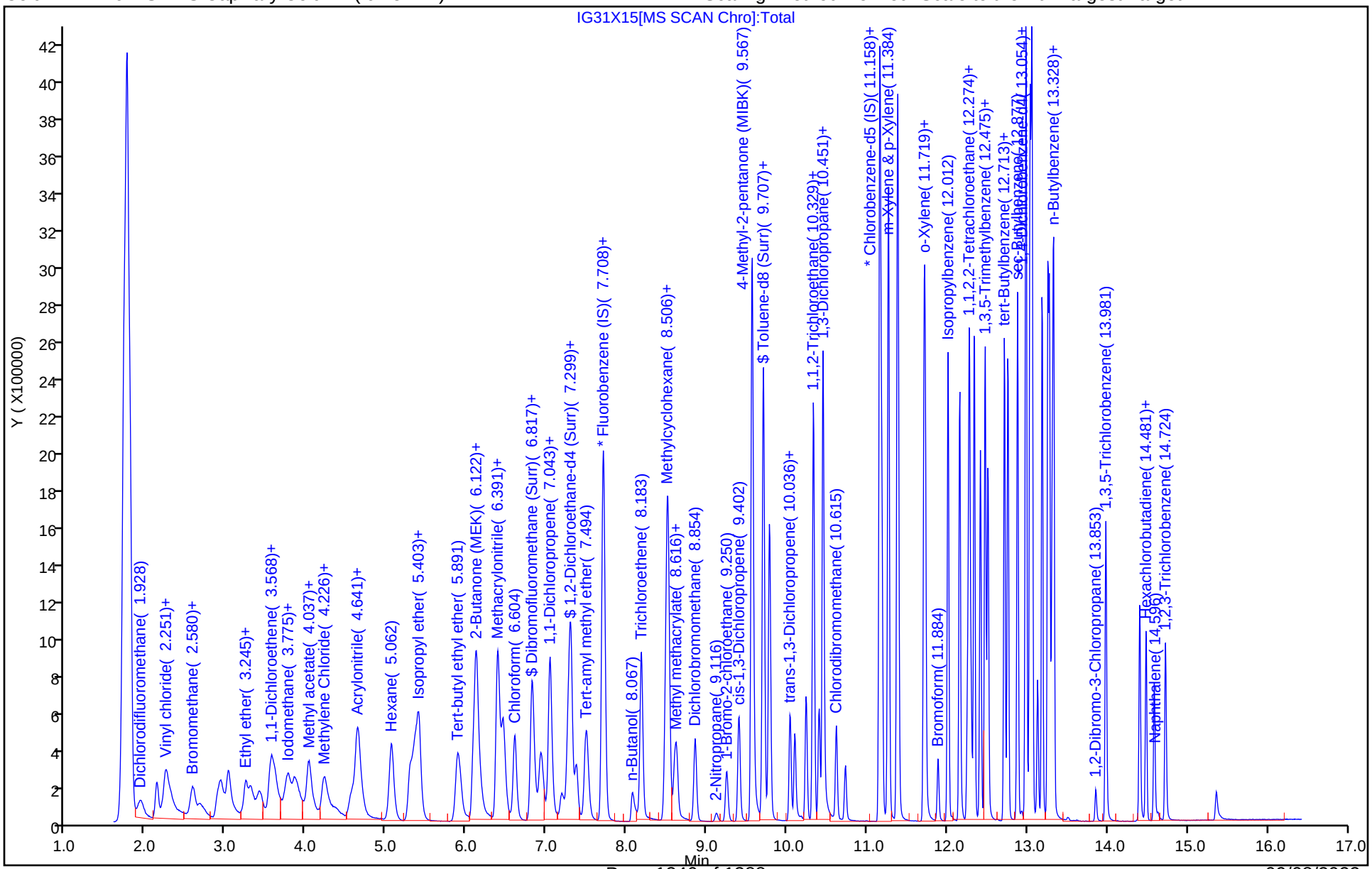
Report Date: 01-Sep-2022 13:05:48 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X15.D

Injection Date:	31-Aug-2022 14:39:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-6 MS			Worklist Smp#:	16
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X15.D				
Lims ID:	410-95715-A-6 MS				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	MS				
Inject. Date:	31-Aug-2022 14:39:30	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-016				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 13:05:48	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:43:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	10.3	103.06
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	9.84	98.41
$ 78 Toluene-d8 (Surr)	10.0	9.59	95.87
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.95	99.45

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

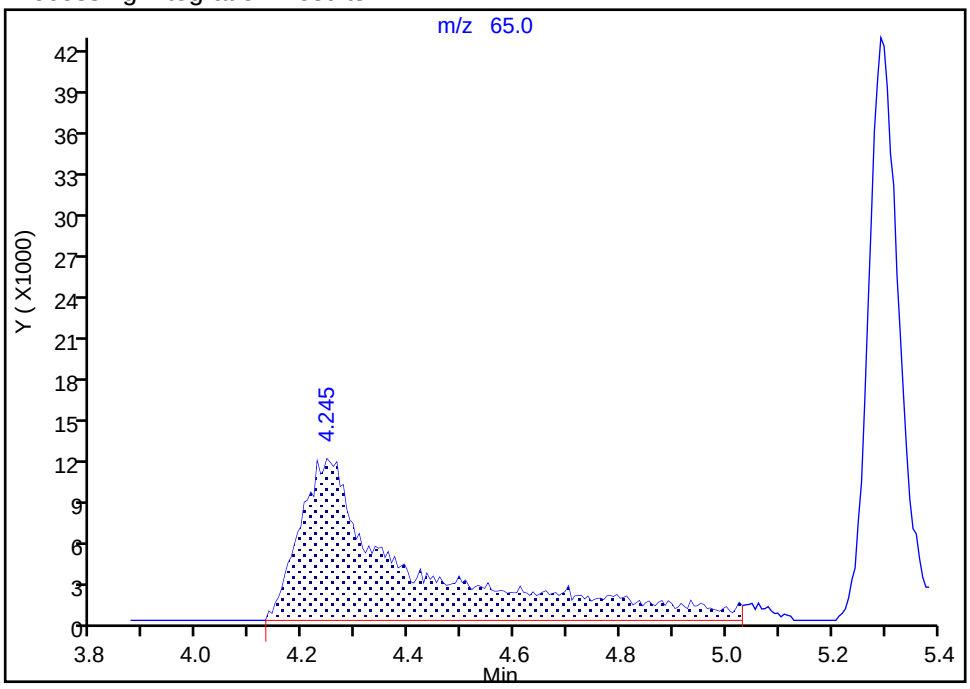
Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X15.D				
Injection Date:	31-Aug-2022 14:39:30	Instrument ID:	19930		
Lims ID:	410-95715-A-6 MS				
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

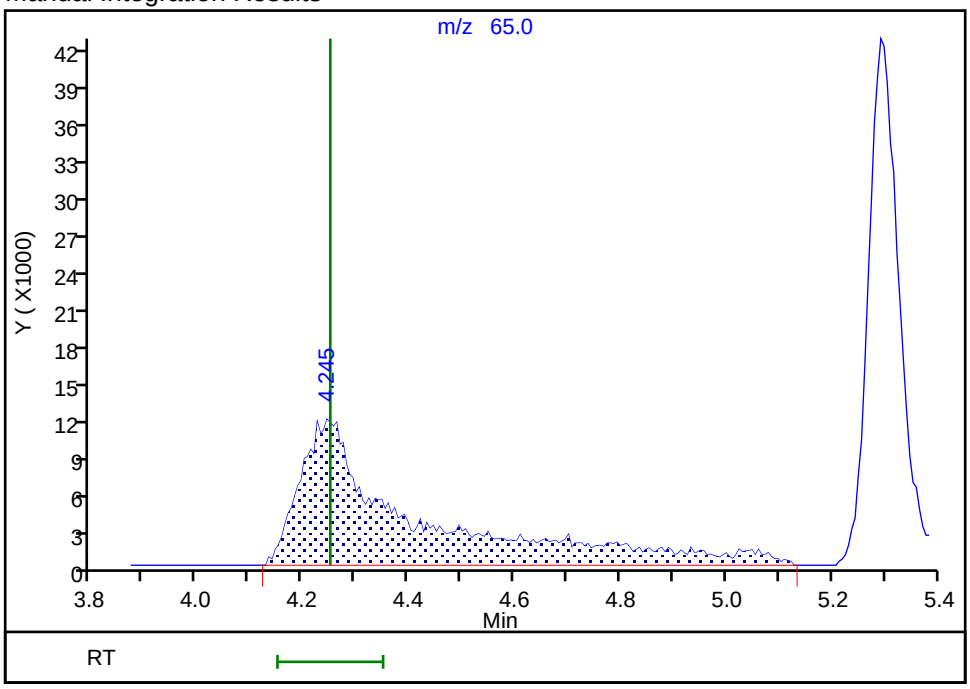
Processing Integration Results

RT: 4.24
Area: 169039
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.24
Area: 173162
Amount: 50.000000
Amount Units: ug/l



Reviewer: pongsawatp, 01-Sep-2022 13:04:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-95715-6 MSD

Matrix: Water Lab File ID: IG31X16.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:45

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 15:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.34		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.70		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.52		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.26		0.50	0.080
75-34-3	1,1-Dichloroethane	5.80		0.50	0.10
75-35-4	1,1-Dichloroethene	4.66		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.28		0.50	0.080
107-06-2	1,2-Dichloroethane	5.72		0.50	0.070
78-87-5	1,2-Dichloropropane	5.79		0.50	0.10
78-93-3	2-Butanone (MEK)	62.4		5.0	1.0
591-78-6	2-Hexanone	64.1		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	66.0		5.0	1.0
67-64-1	Acetone	56.9		5.0	1.0
71-43-2	Benzene	5.76		0.50	0.10
74-97-5	Bromochloromethane	5.70		0.50	0.080
75-27-4	Bromodichloromethane	5.64		0.50	0.080
75-25-2	Bromoform	4.90		1.0	0.30
74-83-9	Bromomethane	6.12		0.50	0.10
75-15-0	Carbon disulfide	5.06		1.0	0.10
56-23-5	Carbon tetrachloride	4.80		0.50	0.10
108-90-7	Chlorobenzene	5.23		0.50	0.070
75-00-3	Chloroethane	5.86		0.50	0.10
67-66-3	Chloroform	6.09		0.50	0.090
74-87-3	Chloromethane	6.16		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.04		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.20		0.50	0.10
124-48-1	Dibromochloromethane	5.10		0.50	0.080
100-41-4	Ethylbenzene	5.44		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.16		0.50	0.080
75-09-2	Methylene Chloride	5.48		0.50	0.10
100-42-5	Styrene	5.59		0.50	0.070
127-18-4	Tetrachloroethene	9.51		0.50	0.20
108-88-3	Toluene	5.18		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-95715-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-95715-6 MSD

Matrix: Water Lab File ID: IG31X16.D

Analysis Method: 8260D Date Collected: 08/25/2022 11:45

Sample wt/vol: 25(mL) Date Analyzed: 08/31/2022 15:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 291418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.27		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.29		0.50	0.080
79-01-6	Trichloroethene	6.79		0.50	0.080
75-01-4	Vinyl chloride	6.35		0.50	0.10
1330-20-7	Xylenes, Total	16.3		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X16.D
Lims ID: 410-95715-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MSD
Inject. Date: 31-Aug-2022 15:01:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0065353-017
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Sep-2022 13:18:32 Calib Date: 11-Jul-2022 17:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1604

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:44:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.934	1.940	-0.006	99	374460	5.00	6.18	
4 Chloromethane	50	2.135	2.136	-0.001	99	423479	5.00	6.16	
5 Vinyl chloride	62	2.239	2.245	-0.006	98	429837	5.00	6.35	
6 Butadiene	39	2.257	2.264	-0.007	93	362401	5.00	4.73	
7 Bromomethane	94	2.587	2.593	-0.006	91	288955	5.00	6.12	
8 Chloroethane	64	2.684	2.696	-0.012	100	233380	5.00	5.86	
9 Dichlorofluoromethane	67	2.897	2.904	-0.007	97	539181	5.00	5.84	
10 Trichlorofluoromethane	101	2.940	2.946	-0.006	98	428875	5.00	4.80	
11 Ethyl ether	59	3.245	3.239	0.006	91	227781	4.99	5.28	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.306	0.000	90	297851	5.00	4.40	
14 Acrolein	56	3.428	3.416	0.012	97	239754	37.5	30.1	
15 1,1-Dichloroethene	96	3.556	3.556	0.000	98	232012	5.00	4.66	
16 Acetone	43	3.592	3.574	0.018	100	535526	62.6	56.9	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.580	3.611	-0.031	45	103717	5.00	2.06	
18 Iodomethane	142	3.757	3.757	0.000	99	501255	5.00	5.72	
19 Ethyl bromide	108	3.788	3.788	0.000	97	170463	4.89	3.79	
20 Carbon disulfide	76	3.873	3.861	0.012	99	631011	5.00	5.06	
23 Methyl acetate	43	4.007	4.001	0.006	97	197115	5.00	7.13	
24 3-Chloro-1-propene	41	4.037	4.032	0.005	92	394740	5.00	5.42	
25 Methylene Chloride	84	4.226	4.221	0.005	92	299011	5.00	5.48	
* 26 t-Butyl alcohol-d10 (IS)	65	4.226	4.251	-0.025	99	170447	50.0	50.0	
27 2-Methyl-2-propanol	59	4.367	4.355	0.012	98	111737	50.0	38.1	
28 Acrylonitrile	53	4.556	4.556	0.000	99	314520	25.0	23.9	
29 Methyl tert-butyl ether	73	4.641	4.635	0.006	97	646259	5.00	5.16	
30 trans-1,2-Dichloroethene	96	4.641	4.647	-0.006	99	291532	5.00	5.27	
31 Hexane	57	5.062	5.062	0.000	93	460373	5.00	5.96	
32 1,1-Dichloroethane	63	5.299	5.293	0.006	96	588128	5.00	5.80	
35 Isopropyl ether	45	5.354	5.361	-0.007	93	887839	5.00	5.70	
36 2-Chloro-1,3-butadiene	53	5.403	5.403	0.000	92	471916	5.00	6.37	
37 Tert-butyl ethyl ether	59	5.891	5.891	0.000	97	774346	5.00	5.36	
38 2-Butanone (MEK)	43	6.092	6.086	0.006	100	1089090	62.6	62.4	
39 cis-1,2-Dichloroethene	96	6.122	6.123	-0.001	81	435785	5.00	7.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2,2-Dichloropropane	77	6.135	6.135	0.000	85	362315	5.00	4.41	
43 Propionitrile	54	6.183	6.171	0.012	98	206532	37.5	40.8	
45 Methacrylonitrile	67	6.391	6.385	0.006	91	658701	37.5	36.2	
46 Chlorobromomethane	128	6.452	6.452	0.000	95	159852	5.00	5.70	
47 Tetrahydrofuran	71	6.464	6.458	0.006	82	129274	25.0	25.6	
48 Chloroform	83	6.604	6.604	0.000	93	618504	5.00	6.09	
$ 49 Dibromofluoromethane (Surr)	113	6.817	6.811	0.006	94	511386	10.0	10.4	
50 1,1,1-Trichloroethane	97	6.830	6.824	0.006	98	427202	5.00	4.70	
51 Cyclohexane	56	6.933	6.927	0.006	91	360254	5.00	3.95	
53 1,1-Dichloropropene	75	7.043	7.037	0.006	97	464716	5.00	5.88	
54 Carbon tetrachloride	117	7.049	7.043	0.006	95	390012	5.00	4.80	
55 Isobutyl alcohol	41	7.189	7.177	0.012	93	171172	125.1	149.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.269	0.000	78	99808	10.0	9.85	
57 Benzene	78	7.299	7.299	0.000	97	1370552	5.00	5.76	
58 1,2-Dichloroethane	62	7.372	7.372	0.000	97	363273	5.00	5.72	
60 Tert-amyl methyl ether	73	7.494	7.494	0.000	98	724891	5.00	5.29	
* 61 Fluorobenzene (IS)	96	7.707	7.702	0.005	99	1965494	10.0	10.0	
62 n-Heptane	43	7.720	7.714	0.006	90	509351	5.00	5.98	
63 n-Butanol	56	8.073	8.061	0.012	91	236686	250.2	224.3	
64 Trichloroethene	95	8.183	8.183	0.000	98	430207	5.00	6.79	
65 Methylcyclohexane	83	8.494	8.494	0.000	94	491969	5.00	4.71	
66 1,2-Dichloropropane	63	8.512	8.506	0.006	97	355616	5.00	5.79	
67 Methyl methacrylate	69	8.598	8.592	0.006	90	148457	5.00	4.53	
68 1,4-Dioxane	88	8.604	8.598	0.006	31	33688	125.1	143.9	
69 Dibromomethane	93	8.622	8.616	0.006	96	167549	5.00	5.69	
71 Dichlorobromomethane	83	8.854	8.854	0.000	99	411391	5.00	5.64	
72 2-Nitropropane	41	9.116	9.116	0.000	98	47012	5.00	4.86	
75 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	99	338449	5.00	5.40	
76 cis-1,3-Dichloropropene	75	9.402	9.396	0.006	96	454107	5.00	5.20	
77 4-Methyl-2-pentanone (MIBK)	43	9.567	9.561	0.006	97	2786039	62.6	66.0	
$ 78 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	2043983	10.0	9.77	
79 Toluene	92	9.780	9.780	0.000	98	856768	5.00	5.18	
97 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	93	398938	5.00	5.29	
99 Ethyl methacrylate	69	10.097	10.097	0.000	89	311139	5.00	5.46	
100 1,1,2-Trichloroethane	97	10.237	10.238	-0.001	91	245219	5.00	5.26	
101 Tetrachloroethene	166	10.329	10.329	0.000	97	750568	5.00	9.51	
102 1,3-Dichloropropane	76	10.402	10.402	0.000	90	412888	5.00	5.30	
103 2-Hexanone	43	10.451	10.445	0.006	97	1956633	62.6	64.1	
105 Chlorodibromomethane	129	10.615	10.616	-0.001	89	291985	5.00	5.10	
106 Ethylene Dibromide	107	10.731	10.725	0.006	99	227804	5.00	5.28	
* 107 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	86	1611668	10.0	10.0	
108 1-Chlorohexane	91	11.164	11.164	0.000	98	489872	5.00	5.29	
109 Chlorobenzene	112	11.182	11.183	-0.001	95	968839	5.00	5.23	
111 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	96	338328	5.00	5.34	
112 Ethylbenzene	91	11.268	11.268	0.000	98	1673326	5.00	5.44	
113 m-Xylene & p-Xylene	106	11.384	11.384	0.000	99	1313486	10.0	11.0	
114 o-Xylene	106	11.713	11.713	0.000	96	603788	5.00	5.29	
115 Styrene	104	11.725	11.725	0.000	94	1008694	5.00	5.59	
116 Bromoform	173	11.883	11.884	-0.001	96	167802	5.00	4.90	
117 Isopropylbenzene	105	12.012	12.012	0.000	96	1634916	5.00	5.51	
$ 120 4-Bromofluorobenzene (Surr)	95	12.158	12.152	0.006	92	798254	10.0	10.4	
121 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	93	326014	5.00	5.52	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromobenzene	156	12.274	12.274	0.000	97	394372	5.00	5.18	
123 trans-1,4-Dichloro-2-butene	53	12.280	12.274	0.006	91	310602	25.0	20.8	
124 1,2,3-Trichloropropane	110	12.298	12.298	0.000	81	82385	5.00	5.28	
125 N-Propylbenzene	91	12.341	12.335	0.006	99	2021387	5.00	5.54	
126 2-Chlorotoluene	126	12.414	12.414	0.000	97	405180	5.00	5.38	
127 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	1388256	5.00	5.44	
128 4-Chlorotoluene	126	12.505	12.505	0.000	97	418785	5.00	5.45	
129 tert-Butylbenzene	134	12.713	12.713	0.000	93	297917	5.00	5.21	
131 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	1352812	5.00	5.33	
132 sec-Butylbenzene	105	12.877	12.877	0.000	94	1802668	5.00	5.46	
133 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	750220	5.00	5.10	
134 4-Isopropyltoluene	119	12.987	12.987	0.000	97	1529275	5.00	5.50	
* 135 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	918133	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.054	13.054	0.000	94	780118	5.00	5.13	
137 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	608876	5.00	5.21	
138 Benzyl chloride	126	13.127	13.127	0.000	98	114149	5.00	5.15	
139 n-Butylbenzene	92	13.280	13.274	0.006	97	765149	5.00	5.77	
140 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	714613	5.00	5.22	
142 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	88	38189	5.00	4.53	
143 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	512140	5.00	5.10	
144 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	400922	5.00	4.96	
145 Hexachlorobutadiene	225	14.481	14.481	0.000	97	182485	5.00	4.78	
146 Naphthalene	128	14.584	14.584	0.000	97	692950	5.00	4.64	
147 1,2,3-Trichlorobenzene	180	14.724	14.725	-0.001	96	332175	5.00	4.63	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

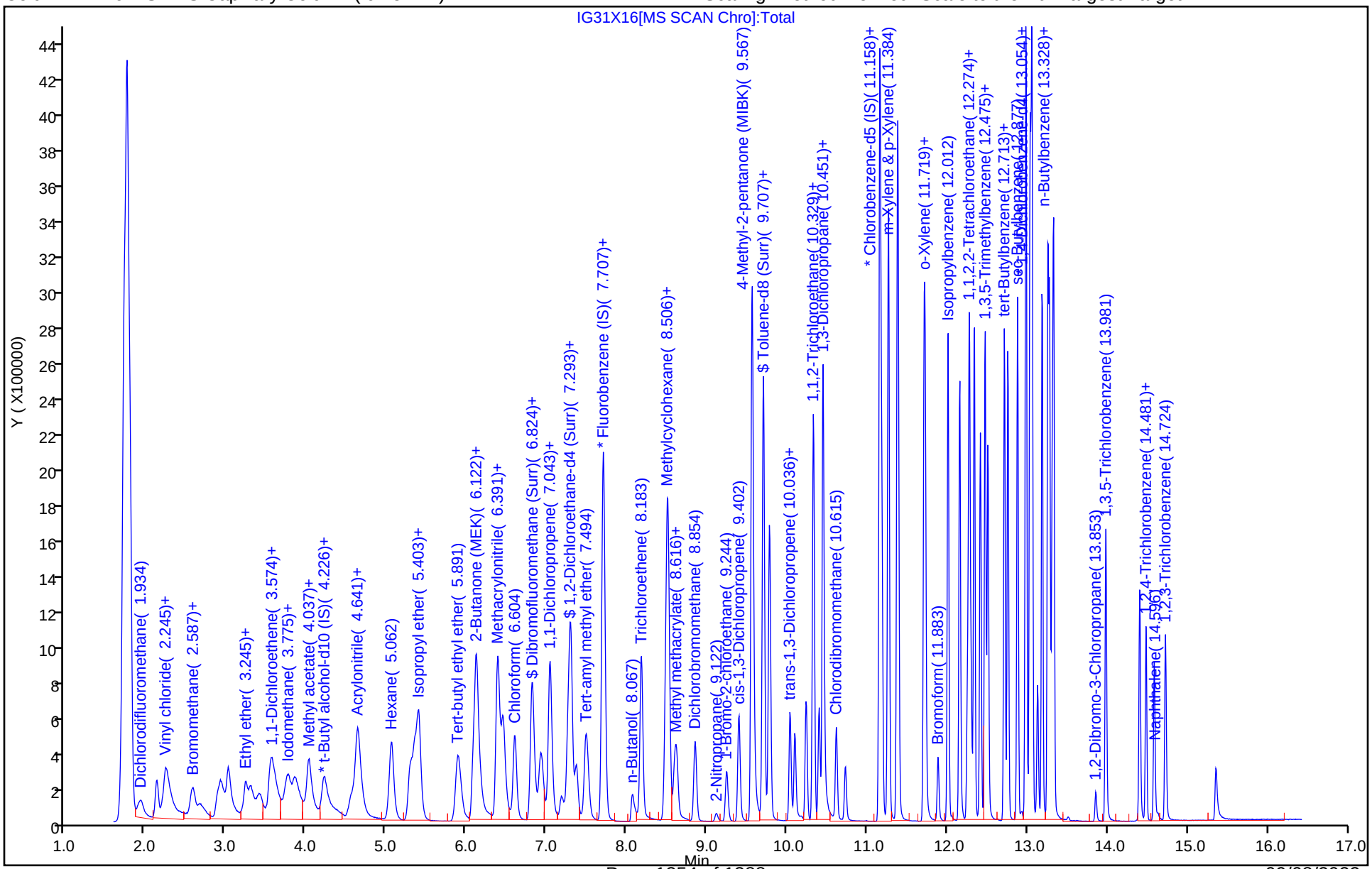
MSV_LCS_VOC#1_00070	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00073	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00003	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00097	Amount Added:	5.38	Units: uL	
LCS_ETBR_00003	Amount Added:	5.38	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 01-Sep-2022 13:59:54 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X16.D				
Injection Date:	31-Aug-2022 15:01:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-95715-A-6 MSD			Worklist Smp#:	17
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\IG31X16.D				
Lims ID:	410-95715-A-6 MSD				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	MSD				
Inject. Date:	31-Aug-2022 15:01:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0065353-017				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220831-65353.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Sep-2022 13:18:32	Calib Date:	11-Jul-2022 17:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220711-61506.b\IL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1604				

First Level Reviewer: pongsawatp Date: 01-Sep-2022 09:44:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	10.4	103.63
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	9.85	98.48
$ 78 Toluene-d8 (Surr)	10.0	9.77	97.73
$ 120 4-Bromofluorobenzene (Surr)	10.0	10.4	104.09

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Start Date: 07/11/2022 15:02

Analysis Batch Number: 274212 End Date: 07/11/2022 17:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-274212/1		07/11/2022 15:02	1	IL11T01.D	R-624SilMS 30m 0.25(mm)
IC 410-274212/12		07/11/2022 15:36	1	IL11X12.D	R-624SilMS 30m 0.25(mm)
ICIS 410-274212/13		07/11/2022 15:57	1	IL11X13.D	R-624SilMS 30m 0.25(mm)
IC 410-274212/14		07/11/2022 16:18	1	IL11X14.D	R-624SilMS 30m 0.25(mm)
IC 410-274212/15		07/11/2022 16:39	1	IL11X15.D	R-624SilMS 30m 0.25(mm)
IC 410-274212/16		07/11/2022 17:00	1	IL11X16.D	R-624SilMS 30m 0.25(mm)
IC 410-274212/17		07/11/2022 17:22	1	IL11X17.D	R-624SilMS 30m 0.25(mm)
IC 410-274212/18		07/11/2022 17:43	1	IL11X18.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Start Date: 07/12/2022 14:39

Analysis Batch Number: 274690 End Date: 07/12/2022 16:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-274690/1		07/12/2022 14:39	1	IL12T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-274690/3		07/12/2022 15:17	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/12/2022 15:59	1		R-624SilMS 30m 0.25(mm)
ICV 410-274690/6		07/12/2022 16:20	1	IL12X06.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Instrument ID: 16334 Start Date: 08/16/2022 13:07

Analysis Batch Number: 286414 End Date: 08/16/2022 20:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-286414/1		08/16/2022 13:07	1	GG16T01.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/3		08/16/2022 13:45	1	GG16X02.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/4		08/16/2022 14:07	1	GG16X03.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/5		08/16/2022 14:29	1	GG16X04.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/6		08/16/2022 14:51	1	GG16X05.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/7		08/16/2022 15:13	1	GG16X06.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/8		08/16/2022 15:35	1	GG16X07.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/9		08/16/2022 15:58	1	GG16X08.D	R-624SilMS 30m 0.25(mm)
ICV 410-286414/11		08/16/2022 16:42	1		R-624SilMS 30m 0.25(mm)
IC 410-286414/13		08/16/2022 17:26	1	GG16X12.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/14		08/16/2022 17:48	1	GG16X13.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/15		08/16/2022 18:10	1	GG16X14.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/16		08/16/2022 18:32	1	GG16X15.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/17		08/16/2022 18:54	1	GG16X16.D	R-624SilMS 30m 0.25(mm)
ICIS 410-286414/18		08/16/2022 19:17	1	GG16X17.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/19		08/16/2022 19:38	1	GG16X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-286414/21		08/16/2022 20:22	1	GG16X20.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Instrument ID: 10193 Start Date: 08/22/2022 15:51

Analysis Batch Number: 288300 End Date: 08/22/2022 23:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-288300/1		08/22/2022 15:51	1	CG22T04.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/3		08/22/2022 16:29	1	CG22X02.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/4		08/22/2022 16:52	1	CG22X03.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/5		08/22/2022 17:14	1	CG22X04.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/6		08/22/2022 17:36	1	CG22X05.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/7		08/22/2022 17:58	1	CG22X06.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/8		08/22/2022 18:21	1	CG22X07.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/9		08/22/2022 18:43	1	CG22X08.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/13		08/22/2022 20:12	1	CG22X12.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/14		08/22/2022 20:34	1	CG22X13.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/15		08/22/2022 20:57	1	CG22X14.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/16		08/22/2022 21:19	1	CG22X15.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/17		08/22/2022 21:41	1	CG22X16.D	R-624SilMS 30m 0.25(mm)
ICIS 410-288300/18		08/22/2022 22:04	1	CG22X17.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/19		08/22/2022 22:26	1	CG22X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-288300/21		08/22/2022 23:10	1	CG22X20.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Start Date: 08/31/2022 09:29

Analysis Batch Number: 291418 End Date: 08/31/2022 20:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-291418/1		08/31/2022 09:29	1	IG31T02.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-291418/3		08/31/2022 10:04	1	IG31X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-291418/4		08/31/2022 10:25	1	IG31X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 10:47	1		R-624SilMS 30m 0.25(mm)
MB 410-291418/6		08/31/2022 11:08	1	IG31X05.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 11:29	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 11:50	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 12:11	1		R-624SilMS 30m 0.25(mm)
410-95715-1	HD-COD-SW-6-0/1-0	08/31/2022 12:33	1	IG31X09.D	R-624SilMS 30m 0.25(mm)
410-95715-2	HD-COD-SW-7-0/1-0	08/31/2022 12:54	1	IG31X10.D	R-624SilMS 30m 0.25(mm)
410-95715-3	HD-COD-SW-8-0/1-0	08/31/2022 13:15	1	IG31X11.D	R-624SilMS 30m 0.25(mm)
410-95715-4	HD-COD-SW-9-0/1-0	08/31/2022 13:36	1	IG31X12.D	R-624SilMS 30m 0.25(mm)
410-95715-5	HD-COD-SW-13-0/1-0	08/31/2022 13:57	1	IG31X13.D	R-624SilMS 30m 0.25(mm)
410-95715-6	HD-COD-SW-15-0/1-0	08/31/2022 14:18	1	IG31X14.D	R-624SilMS 30m 0.25(mm)
410-95715-6 MS	HD-COD-SW-15-0/1-0 MS	08/31/2022 14:39	1	IG31X15.D	R-624SilMS 30m 0.25(mm)
410-95715-6 MSD	HD-COD-SW-15-0/1-0 MSD	08/31/2022 15:01	1	IG31X16.D	R-624SilMS 30m 0.25(mm)
410-95715-7	HD-COD-SW-16-0/1-0	08/31/2022 15:22	1	IG31X17.D	R-624SilMS 30m 0.25(mm)
410-95715-8	HD-COD-SW-17-0/1-0	08/31/2022 15:43	1	IG31X18.D	R-624SilMS 30m 0.25(mm)
410-95715-9	HD-COD-SW-26-0/1-0	08/31/2022 16:04	1	IG31X19.D	R-624SilMS 30m 0.25(mm)
410-95715-10	HD-COD-SW-27-0/1-0	08/31/2022 16:26	1	IG31X20.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 16:47	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 17:08	500		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 17:29	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 17:50	200		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 18:11	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 18:32	200		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 18:53	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 19:15	500		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 19:36	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 19:57	500		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 20:18	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		08/31/2022 20:40	100		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Instrument ID: 19930 Start Date: 09/01/2022 11:15

Analysis Batch Number: 291906 End Date: 09/01/2022 21:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-291906/1		09/01/2022 11:15	1	IS01T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-291906/3		09/01/2022 11:50	1	IS01X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-291906/5		09/01/2022 12:33	1	IS01X04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 12:54	1		R-624SilMS 30m 0.25(mm)
MB 410-291906/7		09/01/2022 13:15	1	IS01X06.D	R-624SilMS 30m 0.25(mm)
410-95715-14	HD-QC1-0-1-2	09/01/2022 14:22	1	IS01X08.D	R-624SilMS 30m 0.25(mm)
410-95715-11	HD-COD-SW-28-0/1-0	09/01/2022 14:44	1	IS01X09.D	R-624SilMS 30m 0.25(mm)
410-95715-12	HD-COD-SW-29-0/1-0	09/01/2022 15:05	1	IS01X10.D	R-624SilMS 30m 0.25(mm)
410-95715-13	HD-QC1-0-1-1	09/01/2022 15:26	1	IS01X11.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 15:47	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 16:09	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 16:30	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 16:51	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 17:12	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 17:33	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 17:54	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 18:16	500		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 19:41	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 20:02	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 20:24	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 20:45	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 21:06	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 21:27	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/01/2022 21:49	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Instrument ID: 10193 Start Date: 09/05/2022 10:11

Analysis Batch Number: 292752 End Date: 09/05/2022 21:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-292752/1		09/05/2022 10:11	1	CS05T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-292752/3		09/05/2022 10:50	1	CS05X02.D	R-624SilMS 30m 0.25(mm)
CCV 410-292752/4		09/05/2022 11:12	1		R-624SilMS 30m 0.25(mm)
LCS 410-292752/5		09/05/2022 11:34	1	CS05X04.D	R-624SilMS 30m 0.25(mm)
LCSD 410-292752/6		09/05/2022 11:57	1	CS05X05.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 12:19	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 12:41	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 13:05	1		R-624SilMS 30m 0.25(mm)
MB 410-292752/10		09/05/2022 13:27	1	CS05X09.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 13:49	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 17:10	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 17:32	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 18:16	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 18:39	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 19:01	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 19:23	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 19:50	1		R-624SilMS 30m 0.25(mm)
410-95715-13 DL	HD-QC1-0-1-1 DL	09/05/2022 21:19	10	CS05X30.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 21:41	20		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-95715-1

SDG No.:

Instrument ID: 16334 Start Date: 09/05/2022 10:01

Analysis Batch Number: 292755 End Date: 09/05/2022 18:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-292755/1		09/05/2022 10:01	1	GS05T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-292755/3		09/05/2022 10:37	1	GS05X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-292755/4		09/05/2022 10:59	1	GS05X03.D	R-624SilMS 30m 0.25(mm)
LCSD 410-292755/5		09/05/2022 11:21	1	GS05X04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 11:43	1		R-624SilMS 30m 0.25(mm)
MB 410-292755/7		09/05/2022 12:05	1	GS05X06.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 12:27	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 12:49	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 13:11	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 13:34	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 13:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 14:18	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 14:40	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 15:02	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 15:24	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 15:46	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 16:08	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 16:30	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 16:52	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 17:14	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 17:36	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 17:58	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		09/05/2022 18:21	1		R-624SilMS 30m 0.25(mm)
410-95715-8 DL	HD-COD-SW-17-0/1-0 DL	09/05/2022 18:43	10	GS05X24.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 274212 Batch Start Date: 07/11/22 15:02 Batch Analyst: Sposito, Kevin A

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_LL_#1_826 00049	MSV_LL_#2_826 00053	MSV_LL_GAS826 00101
BFB 410-274212/1		8260D		1 uL	1 uL				
IC 410-274212/12		8260D		25 mL	25 mL	2646	25 uL	25 uL	25 uL
ICIS 410-274212/13		8260D		25 mL	25 mL	2646	10 uL	10 uL	10 uL
IC 410-274212/14		8260D		25 mL	25 mL	2646	5 uL	5 uL	5 uL
IC 410-274212/15		8260D		25 mL	25 mL	2646	2 uL	2 uL	2 uL
IC 410-274212/16		8260D		25 mL	25 mL	2646	2 uL	2 uL	2 uL
IC 410-274212/17		8260D		25 mL	25 mL	2646	2 uL	2 uL	2 uL
IC 410-274212/18		8260D		25 mL	25 mL	2646	2 uL	2 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LLcentISS 00005	MSV_V_BFB 00008				
BFB 410-274212/1		8260D			1 uL				
IC 410-274212/12		8260D		5 uL					
ICIS 410-274212/13		8260D		5 uL					
IC 410-274212/14		8260D		5 uL					
IC 410-274212/15		8260D		5 uL					
IC 410-274212/16		8260D		5 uL					
IC 410-274212/17		8260D		5 uL					
IC 410-274212/18		8260D		5 uL					

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 274212 Batch Start Date: 07/11/22 15:02 Batch Analyst: Sposito, Kevin A

Batch Method: 8260D Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 274690 Batch Start Date: 07/12/22 14:39 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00003	MSV_LCS_ACROL 00066	MSV_LCS_EE 00003
BFB 410-274690/1		8260D		1 uL	1 uL				
ICV 410-274690/6		8260D		25 mL	25 mL	2646	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_Penta 00017	MSV_LCS_VOC#1 00063	MSV_LLcentISS 00005	MSV_QC_Gas826 00089	MSV_V_BFB 00008	
BFB 410-274690/1		8260D						1 uL	
ICV 410-274690/6		8260D		12.5 uL	12.5 uL	5 uL	12.5 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 286414 Batch Start Date: 08/16/22 13:07 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00003	MSV_29_826ISO 00010	MSV_29_826ISS 00037
BFB 410-286414/1		8260D		1 uL	1 uL				
IC 410-286414/3		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/4		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/5		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/6		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/7		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/8		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/9		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/13		8260D		25 mL	25 mL	2656			1 uL
IC 410-286414/14		8260D		25 mL	25 mL	2656			1 uL
IC 410-286414/15		8260D		25 mL	25 mL	2656			1 uL
IC 410-286414/16		8260D		25 mL	25 mL	2656			1 uL
IC 410-286414/17		8260D		25 mL	25 mL	2656			1 uL
ICIS 410-286414/18		8260D		25 mL	25 mL	2656			1 uL
IC 410-286414/19		8260D		25 mL	25 mL	2656			1 uL
ICV 410-286414/21		8260D		25 mL	25 mL	2656	12.5 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_CYC 00004	MSV_CCV_V5ACE 00013	MSV_DME 00041	MSV_LCS_ACROL 00071	MSV_LCS_EE 00003	MSV_LCS_Penta 00018
BFB 410-286414/1		8260D							
IC 410-286414/3		8260D		1.6 uL	0.2 uL	0.2 uL			
IC 410-286414/4		8260D		4 uL	0.5 uL	0.5 uL			
IC 410-286414/5		8260D		8 uL	1 uL	1 uL			
IC 410-286414/6		8260D		8 uL	1 uL	1 uL			
IC 410-286414/7		8260D		8 uL	1 uL	1 uL			
IC 410-286414/8		8260D		8 uL	1 uL	1 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 286414 Batch Start Date: 08/16/22 13:07 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_CYC 00004	MSV_CCV_V5ACE 00013	MSV_DME 00041	MSV_LCS_ACROL 00071	MSV_LCS_EE 00003	MSV_LCS_Penta 00018
IC 410-286414/9		8260D		20 uL	2.5 uL	2.5 uL			
IC 410-286414/13		8260D							
IC 410-286414/14		8260D							
IC 410-286414/15		8260D							
IC 410-286414/16		8260D							
IC 410-286414/17		8260D							
ICIS 410-286414/18		8260D							
IC 410-286414/19		8260D							
ICV 410-286414/21		8260D					12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00068	MSV_LL_#1_826 00052	MSV_LL_#2_826 00056	MSV_LL_GAS826 00108	MSV_QC_Gas826 00095	MSV_V_BFB 00008
BFB 410-286414/1		8260D							1 uL
IC 410-286414/3		8260D							
IC 410-286414/4		8260D							
IC 410-286414/5		8260D							
IC 410-286414/6		8260D							
IC 410-286414/7		8260D							
IC 410-286414/8		8260D							
IC 410-286414/9		8260D							
IC 410-286414/13		8260D			2 uL	2 uL	2 uL		
IC 410-286414/14		8260D			2 uL	2 uL	2 uL		
IC 410-286414/15		8260D			2 uL	2 uL	2 uL		
IC 410-286414/16		8260D			2 uL	2 uL	2 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 286414 Batch Start Date: 08/16/22 13:07 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00068	MSV_LL_#1_826 00052	MSV_LL_#2_826 00056	MSV_LL_GAS826 00108	MSV_QC_Gas826 00095	MSV_V_BFB 00008
IC 410-286414/17		8260D			5 uL	5 uL	5 uL		
ICIS 410-286414/18		8260D			10 uL	10 uL	10 uL		
IC 410-286414/19		8260D			25 uL	25 uL	25 uL		
ICV 410-286414/21		8260D		12.5 uL				12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_SMRV4 00044					
BFB 410-286414/1		8260D							
IC 410-286414/3		8260D		1 uL					
IC 410-286414/4		8260D		2.5 uL					
IC 410-286414/5		8260D		5 uL					
IC 410-286414/6		8260D		5 uL					
IC 410-286414/7		8260D		5 uL					
IC 410-286414/8		8260D		5 uL					
IC 410-286414/9		8260D		12.5 uL					
IC 410-286414/13		8260D							
IC 410-286414/14		8260D							
IC 410-286414/15		8260D							
IC 410-286414/16		8260D							
IC 410-286414/17		8260D							
ICIS 410-286414/18		8260D							
IC 410-286414/19		8260D							
ICV 410-286414/21		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 286414 Batch Start Date: 08/16/22 13:07 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 288300 Batch Start Date: 08/22/22 15:51 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00003	MSV_CCV_CYC 00004	MSV_CCV_V5ACE 00013
BFB 410-288300/1		8260D		1 uL	1 uL				
IC 410-288300/3		8260D		25 mL	25 mL	2656		1.6 uL	0.2 uL
IC 410-288300/4		8260D		25 mL	25 mL	2656		4 uL	0.5 uL
IC 410-288300/5		8260D		25 mL	25 mL	2656		4 uL	0.5 uL
IC 410-288300/6		8260D		25 mL	25 mL	2656		8 uL	1 uL
IC 410-288300/7		8260D		25 mL	25 mL	2656		8 uL	1 uL
IC 410-288300/8		8260D		25 mL	25 mL	2656		8 uL	1 uL
IC 410-288300/9		8260D		25 mL	25 mL	2656		20 uL	2.5 uL
IC 410-288300/13		8260D		25 mL	25 mL	2656			
IC 410-288300/14		8260D		25 mL	25 mL	2656			
IC 410-288300/15		8260D		25 mL	25 mL	2656			
IC 410-288300/16		8260D		25 mL	25 mL	2656			
IC 410-288300/17		8260D		25 mL	25 mL	2656			
ICIS 410-288300/18		8260D		25 mL	25 mL	2656			
IC 410-288300/19		8260D		25 mL	25 mL	2656			
ICV 410-288300/21		8260D		25 mL	25 mL	2656	12.5 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_DME 00041	MSV_HP25_ISO 00007	MSV_HP25_ISSS 00058	MSV_LCS_ACROL 00072	MSV_LCS_EE 00003	MSV_LCS_Penta 00019
BFB 410-288300/1		8260D							
IC 410-288300/3		8260D		0.2 uL	1 uL				
IC 410-288300/4		8260D		0.5 uL	1 uL				
IC 410-288300/5		8260D		0.5 uL	1 uL				
IC 410-288300/6		8260D		1 uL	1 uL				
IC 410-288300/7		8260D		1 uL	1 uL				
IC 410-288300/8		8260D		1 uL	1 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 288300 Batch Start Date: 08/22/22 15:51 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_DME 00041	MSV_HP25_ISO 00007	MSV_HP25_ISSS 00058	MSV_LCS_ACROL 00072	MSV_LCS_EE 00003	MSV_LCS_Penta 00019
IC 410-288300/9		8260D		2.5 uL	1 uL				
IC 410-288300/13		8260D				1 uL			
IC 410-288300/14		8260D				1 uL			
IC 410-288300/15		8260D				1 uL			
IC 410-288300/16		8260D				1 uL			
IC 410-288300/17		8260D				1 uL			
ICIS 410-288300/18		8260D				1 uL			
IC 410-288300/19		8260D				1 uL			
ICV 410-288300/21		8260D				1 uL	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00069	MSV_LL_#1_826 00053	MSV_LL_#2_826 00057	MSV_LL_GAS826 00109	MSV_QC_Gas826 00096	MSV_V_BFB 00008
BFB 410-288300/1		8260D							1 uL
IC 410-288300/3		8260D							
IC 410-288300/4		8260D							
IC 410-288300/5		8260D							
IC 410-288300/6		8260D							
IC 410-288300/7		8260D							
IC 410-288300/8		8260D							
IC 410-288300/9		8260D							
IC 410-288300/13		8260D			2 uL	2 uL	2 uL		
IC 410-288300/14		8260D			2 uL	2 uL	2 uL		
IC 410-288300/15		8260D			2 uL	2 uL	2 uL		
IC 410-288300/16		8260D			2 uL	2 uL	2 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 288300 Batch Start Date: 08/22/22 15:51 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00069	MSV_LL_#1_826 00053	MSV_LL_#2_826 00057	MSV_LL_GAS826 00109	MSV_QC_Gas826 00096	MSV_V_BFB 00008
IC 410-288300/17		8260D			5 uL	5 uL	5 uL		
ICIS 410-288300/18		8260D			10 uL	10 uL	10 uL		
IC 410-288300/19		8260D			25 uL	25 uL	25 uL		
ICV 410-288300/21		8260D		12.5 uL				12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_SMRV4 00045					
BFB 410-288300/1		8260D							
IC 410-288300/3		8260D		1 uL					
IC 410-288300/4		8260D		2.5 uL					
IC 410-288300/5		8260D		2.5 uL					
IC 410-288300/6		8260D		5 uL					
IC 410-288300/7		8260D		5 uL					
IC 410-288300/8		8260D		5 uL					
IC 410-288300/9		8260D		12.5 uL					
IC 410-288300/13		8260D							
IC 410-288300/14		8260D							
IC 410-288300/15		8260D							
IC 410-288300/16		8260D							
IC 410-288300/17		8260D							
ICIS 410-288300/18		8260D							
IC 410-288300/19		8260D							
ICV 410-288300/21		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 288300 Batch Start Date: 08/22/22 15:51 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 291418 Batch Start Date: 08/31/22 09:29 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-291418/1		8260D		1 uL	1 uL				
CCVIS 410-291418/3		8260D		25 mL	25 mL				2656
LCS 410-291418/4		8260D		25 mL	25 mL				2656
MB 410-291418/6		8260D		25 mL	25 mL				2656
410-95715-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	5 SU	N	N	
410-95715-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-6 MS	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-6 MSD	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_LCS_ACROL 00073	MSV_LCS_EE 00003	MSV_LCS_VOC#1 00070	MSV_LL_#1_826 00052	MSV_LL_#2_826 00057
BFB 410-291418/1		8260D							
CCVIS 410-291418/3		8260D						20 uL	20 uL
LCS 410-291418/4		8260D		12.5 uL	12.5 uL	12.5 uL	12.5 uL		
MB 410-291418/6		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 291418 Batch Start Date: 08/31/22 09:29 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_LCS_ACROL 00073	MSV_LCS_EE 00003	MSV_LCS_VOC#1 00070	MSV_LL_#1_826 00052	MSV_LL_#2_826 00057
410-95715-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-95715-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-95715-A-3	HD-COD-SW-8-0/1-0	8260D	T						
410-95715-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-95715-A-5	HD-COD-SW-13-0/1-0	8260D	T						
410-95715-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-95715-A-6 MS	HD-COD-SW-15-0/1-0	8260D	T	5.38 uL	5.38 uL	5.38 uL	5.38 uL		
410-95715-A-6 MSD	HD-COD-SW-15-0/1-0	8260D	T	5.38 uL	5.38 uL	5.38 uL	5.38 uL		
410-95715-A-7	HD-COD-SW-16-0/1-0	8260D	T						
410-95715-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-95715-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-95715-A-10	HD-COD-SW-27-0/1-0	8260D	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_GAS826 00110	MSV_LLcentISS 00005	MSV_QC_Gas826 00097	MSV_V_BFB 00008		
BFB 410-291418/1		8260D					1 uL		
CCVIS 410-291418/3		8260D		20 uL	5 uL				
LCS 410-291418/4		8260D			5 uL	12.5 uL			
MB 410-291418/6		8260D			5 uL				
410-95715-A-1	HD-COD-SW-6-0/1-0	8260D	T		5 uL				
410-95715-A-2	HD-COD-SW-7-0/1-0	8260D	T		5 uL				
410-95715-A-3	HD-COD-SW-8-0/1-0	8260D	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 291418 Batch Start Date: 08/31/22 09:29 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_GAS826 00110	MSV_LLcentISS 00005	MSV_QC_Gas826 00097	MSV_V_BFB 00008		
410-95715-A-4	HD-COD-SW-9-0/1-0	8260D	T		5 uL				
410-95715-A-5	HD-COD-SW-13-0/1-0	8260D	T		5 uL				
410-95715-A-6	HD-COD-SW-15-0/1-0	8260D	T		5 uL				
410-95715-A-6 MS	HD-COD-SW-15-0/1-0	8260D	T		5 uL	5.38 uL			
410-95715-A-6 MSD	HD-COD-SW-15-0/1-0	8260D	T		5 uL	5.38 uL			
410-95715-A-7	HD-COD-SW-16-0/1-0	8260D	T		5 uL				
410-95715-A-8	HD-COD-SW-17-0/1-0	8260D	T		5 uL				
410-95715-A-9	HD-COD-SW-26-0/1-0	8260D	T		5 uL				
410-95715-A-10	HD-COD-SW-27-0/1-0	8260D	T		5 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 291906 Batch Start Date: 09/01/22 11:15 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-291906/1		8260D		1 uL	1 uL				
CCVIS 410-291906/3		8260D		25 mL	25 mL				2656
LCS 410-291906/5		8260D		25 mL	25 mL				2656
MB 410-291906/7		8260D		25 mL	25 mL				2656
410-95715-A-14	HD-QC1-0-1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-95715-A-13	HD-QC1-0-1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_LCS_ACROL 00073	MSV_LCS_EE 00003	MSV_LCS_Penta 00019	MSV_LCS_VOC#1 00070	MSV_LL_#1_826 00052
BFB 410-291906/1		8260D							
CCVIS 410-291906/3		8260D							20 uL
LCS 410-291906/5		8260D		12.5 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL	
MB 410-291906/7		8260D							
410-95715-A-14	HD-QC1-0-1-2	8260D	T						
410-95715-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-95715-A-12	HD-COD-SW-29-0/1-0	8260D	T						
410-95715-A-13	HD-QC1-0-1-1	8260D	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#2_826 00057	MSV_LL_GAS826 00110	MSV_LLcentISS 00005	MSV_QC_Gas826 00097	MSV_V_BFB 00008	
BFB 410-291906/1		8260D						1 uL	
CCVIS 410-291906/3		8260D		20 uL	20 uL	5 uL			
LCS 410-291906/5		8260D				5 uL	12.5 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 291906 Batch Start Date: 09/01/22 11:15 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#2_826 00057	MSV_LL_GAS826 00110	MSV_LLcentISS 00005	MSV_QC_Gas826 00097	MSV_V_BFB 00008	
MB 410-291906/7		8260D				5 uL			
410-95715-A-14	HD-QC1-0-1-2	8260D	T			5 uL			
410-95715-A-11	HD-COD-SW-28-0/1-0	8260D	T			5 uL			
410-95715-A-12	HD-COD-SW-29-0/1-0	8260D	T			5 uL			
410-95715-A-13	HD-QC1-0-1-1	8260D	T			5 uL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 292752 Batch Start Date: 09/05/22 10:11 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-292752/1		8260D		1 uL	1 uL				
CCVIS 410-292752/3		8260D		25 mL	25 mL				2656
LCS 410-292752/5		8260D		25 mL	25 mL				2656
LCSD 410-292752/6		8260D		25 mL	25 mL				2656
MB 410-292752/10		8260D		25 mL	25 mL				2656
410-95715-B-13	HD-QC1-0-1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	2656

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_HP25_ISSS 00057	MSV_LCS_ACROL 00073	MSV_LCS_EE 00003	MSV_LCS_Penta 00019	MSV_LCS_VOC#1 00070
BFB 410-292752/1		8260D							
CCVIS 410-292752/3		8260D			1 uL				
LCS 410-292752/5		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
LCSD 410-292752/6		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
MB 410-292752/10		8260D			1 uL				
410-95715-B-13	HD-QC1-0-1-1	8260D	T		1 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00052	MSV_LL_#2_826 00057	MSV_LL_GAS826 00110	MSV_QC_Gas826 00098	MSV_V_BFB 00008	
BFB 410-292752/1		8260D						1 uL	
CCVIS 410-292752/3		8260D		25 uL	25 uL	25 uL			
LCS 410-292752/5		8260D					12.5 uL		
LCSD 410-292752/6		8260D					12.5 uL		
MB 410-292752/10		8260D							
410-95715-B-13	HD-QC1-0-1-1	8260D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 292752 Batch Start Date: 09/05/22 10:11 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 292755 Batch Start Date: 09/05/22 10:01 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-292755/1		8260D		1 uL	1 uL				
CCVIS 410-292755/3		8260D		25 mL	25 mL				2656
LCS 410-292755/4		8260D		25 mL	25 mL				2656
LCSD 410-292755/5		8260D		25 mL	25 mL				2656
MB 410-292755/7		8260D		25 mL	25 mL				2656
410-95715-B-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	2656

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_29_826ISS 00036	MSV_LCS_ACROL 00073	MSV_LCS_EE 00003	MSV_LCS_Penta 00019	MSV_LCS_VOC#1 00070
BFB 410-292755/1		8260D							
CCVIS 410-292755/3		8260D			1 uL				
LCS 410-292755/4		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
LCSD 410-292755/5		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
MB 410-292755/7		8260D			1 uL				
410-95715-B-8	HD-COD-SW-17-0/1-0	8260D	T		1 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00053	MSV_LL_#2_826 00057	MSV_LL_GAS826 00110	MSV_QC_Gas826 00098	MSV_V_BFB 00008	
BFB 410-292755/1		8260D						1 uL	
CCVIS 410-292755/3		8260D		20 uL	20 uL	20 uL			
LCS 410-292755/4		8260D					12.5 uL		
LCSD 410-292755/5		8260D					12.5 uL		
MB 410-292755/7		8260D							
410-95715-B-8	HD-COD-SW-17-0/1-0	8260D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-95715-1

SDG No.:

Batch Number: 292755 Batch Start Date: 09/05/22 10:01 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Environmental Analysis Chain of Custody

410-95715 Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater Sciences Corporation			
Project Name/#: fYNOP Monthly Surface Water	Site ID #: fYNOP, York PA		
Project Manager: Chris O'Neil	P.O. #: 10012.49		
Sampler: Casey Littlefield / Jason Fritz	PWSID #: N/A		
Phone #: (717) 901-8176 / (717) 756-1246	Quote #:		
State where samples were collected: York, PA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water	Potable	Ground	NPDES	Surface	Other:	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H
HD-COD-SW-6-0/1-0	8/25/22	1030	X					X						3	X	
HD-COD-SW-7-0/1-0		1125	X					X						3	X	
HD-COD-SW-8-0/1-0		0915	X					X						3	X	
HD-COD-SW-9-0/1-0		1305	X					X						3	X	
HD-COD-SW-13-0/1-0		0935	X					X						3	X	
HD-COD-SW-15-0/1-0		1145	X					X						3	X	
HD-COD-SW-15-0/1-0 MS		1145	X					X						3	X	
HD-COD-SW-15-0/1-0 MSD		1145	X					X						3	X	
HD-COD-SW-16-0/1-0		1000	X					X						3	X	
HD-COD-SW-17-0/1-0		1010	X					X						3	X	

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☒ Phone ☐

E-mail Address: ON-FILE

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: _ CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
	8/25/22	1410		8/25/22	1410
	8/25/22	1415		8/25/22	1415
	8/25/22	1539			
				8/25/22	1540

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 23 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct # _____ Group # _____ Sample # _____

Client:	Groundwater Sciences Corporation		
Project Name/#:	fYNOP Monthly Surface Water	Site ID #:	fYNOP, York PA
Project Manager:	Chris O'Neil	P.O. #:	10012.49
Sampler:	Casey Littlefield / Jason Fritz	PWSID #:	N/A
Phone #:	(717) 901-8176 / (717) 756-1246	Quote #:	
State where samples were collected: York, PA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	Surface	NPDES	Other: Trip Blank	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H	Remarks
HD-COD-SW-26-0/1-0	8/25/22	1105	X					X					3	X		
HD-COD-SW-27-0/1-0		1135	X					X					3	X		
HD-COD-SW-28-0/1-0		1315	X					X					3	X		
HD-COD-SW-29-0/1-0		0900	X					X					3	X		
HD-QC1-0/1-1		1020	X					X					3	X		
HD-QC1-0/1-2		—	X									X	2	X		Trip Blank

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☒ Phone ☐

E-mail Address: on - file

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: _ CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/25/22	1410	[signature]	8/25/22	1410
[signature]	8/25/22	1415	[signature]	8/25/22	1415
[signature]	8/25/22	1539			
			[signature]	8/25/22	1540

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 2.3 °C

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation Job Number: 410-95715-1

Login Number: 95715 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: Jeremiah, Cory T

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation Job Number: 410-95715-1

Login Number: 95715 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 2
Creator: Renner, Melissa

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		